TAPR TEXNET/AXIP Mailing List Archive (1998-1999)

TAPR TEXNET/AXIP Mailing List — 1998-06 through 1999-05

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TAPR TEXNET/AXIP Mailing List

This combined reading copy contains 120 messages from 8 preserved monthly TAPR archive files, covering 1998-06 through 1999-05.
The original monthly files are packaged separately in the accompanying ZIP archive. The source URL for each file appears below and at every monthly boundary.

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MONTHLY ARCHIVE: texnetaxip.9806
MONTH: 1998-06
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9806
==========

From wd5ivd@tapr.org Sun Jun 14 15:04:39 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id PAA20825 for <texnetaxip>; Sun, 14 Jun 1998 15:04:38 -0500 (CDT)
Message-Id: <v04003a01b1a9dd03bd5f@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 14 Jun 1998 15:04:17 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Test

This is a test of the TEXNET AXIP development/support list.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w9ddd@tapr.org Sun Jun 14 15:24:45 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id PAA21651; Sun, 14 Jun 1998 15:24:44 -0500 (CDT)
Date: Sun, 14 Jun 1998 15:24:43 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: new list
In-Reply-To: <v04003a01b1a9dd03bd5f@[207.8.125.50]>
Message-ID: <Pine.BSI.3.91.980614152413.21596A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ah, Satan's list! :-)

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

From wd5ivd@tapr.org Sun Jun 14 15:46:15 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id PAA22485; Sun, 14 Jun 1998 15:46:09 -0500 (CDT)
Message-Id: <v04003a02b1a9e157c220@[207.8.125.50]>
In-Reply-To: <v04003a01b1a9dd03bd5f@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 14 Jun 1998 15:26:20 -0500
To: texnetaxip@tapr.org

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:1] Test

Welcome.

This list will be used to discuss interconnection between TexNet nodes
using Bob Morgan's new AXIP modifications for TexNet.

The following people are on this list.

WD5IVD@TAPR.ORG Greg Jones
WA5LHS@TAPR.ORG Jim Neely
FRANK.R@AGUILAR.NET Frank Aguilar
HARRYR@EXPRESS-NEWS.NET Harry Ridenour
DANP@COMP.UARK.EDU Dan Puckett
N5EG@TAPR.ORG Tom McDermott
W9DDD@TAPR.ORG John Koster
WA5VMS@TAPR.ORG Joe Borovetz
MORGANB@INETPORT.COM Bob Morgan
KC5GOI@INFOSPEEDWAY.NET Guy Story

If anyone else needs to be involved, just have them send e-mail to

listserv@tapr.org

in the message put

sub texnetaxip FullName

I believe that Bob wants to keep this list to just those implementing the
first few AXIP gateways. So, please don't disseminate widely at this time.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From Frank.R@Aguilar.net Sun Jun 14 16:13:26 1998
Received: from mb1.mailbank.com (mb1.mailbank.com [204.244.193.15]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP
id QAA24236 for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 16:13:25 -0500 (CDT)
Received: from ppp077-lardtx.ICSI.Net [199.1.102.77]
(HELO Aguilar.net)
by mb1.mailbank.com (AltaVista Mail V2.0H/2.0H BL25H listener)
id 0000_005b_3584_3ccd_40a1;
Sun, 14 Jun 1998 14:12:45 -0700
Message-ID: <35843CB4.8D4E3B64@Aguilar.net>
Date: Sun, 14 Jun 1998 16:12:21 -0500
From: "Frank R. Aguilar" <Frank.R@Aguilar.net>
Reply-To: Frank.R@Aguilar.net
Organization: N5SSH
X-Mailer: Mozilla 4.04 [en] (Win95; U)
MIME-Version: 1.0
To: texnetaxip@tapr.org
Subject: Which version for Linux Box?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob,

Which version of Linux would you recommend for this?
Slackware or Red Hat?

I'm pounding new turf so pardon if its a silly question.

Frank, N5SSH

From morganb@inetport.com Sun Jun 14 19:15:48 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
TAA12831 for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 19:15:46 -0500 (CDT)
Received: from as01-39.inetport.com (as01-39.inetport.com [204.96.100.119])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id TAA24982
for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 19:15:42 -0500 (CDT)

Message-Id: <3.0.1.16.19980615000144.1ab78a8c@inetport.com>
X-Sender: morganb@inetport.com (Unverified)
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Mon, 15 Jun 1998 00:01:44
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Test
In-Reply-To: <v04003a01b1a9dd03bd5f@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:09 PM 6/14/98 -0500, you wrote:
>This is a test of the TEXNET AXIP development/support list.
>
>Greg

Neat. Another list. That's one thing I like; have another project,
start up another list to manage it. Now if I could just read all the
stuff I get now....

Anyhow- here is a little bit of progress report. I see from filedates
that I have been messing with vers 1.75 of TexNet for about 2 years,
and that is way over average. I had been staring at the code trying
to find some fresh bugs that I had built into the code in this revision,
mostly in the command intrepreter. This code has been running here,
and also in Alamo and Waco for around a year, with bugs, but there were
some things that would corrupt the works, and it in no way could it be
either released nor taken any farther until the bugs were fixed. It
looks like over the last few days I have fixed said bugs, and added
other functions on the wishlist, and the update is now under test
both here and in Alamo, and I will stick it in Waco next week if things
go according to plans.

Some functions added include a long overdue monitor/heard list function,
an additional statistics request/response function needed to look at
stats on nodes equipped with internet interfaces, some additions to
the data acquisition stuff I have been tinkering with, some more values
in the regular stats display, a minor tweak to the century date rollover,
and a February 29th patch. There will also be some kind of enhancements
for at least APRS digipeating, and maybe some attempts at APRS networking.
I am still undecided as to how to implement APRS networking, just know I
want to do something with it.

I also increased the NTT size from 10 to 12. This means that previous
code limited nodes to a maximum of 10 trunks fanned out from any
one node, and now with this version it is raised to 12. I had been
planning that change from last year when it looked like SanTex might
need some more if it were combined with Salamo. Of course that scheme
fell through, but there may be a need for it with busy internet nodes.
It came at a very easy price, 4 bytes added to the table, and maybe a
little more time to manage things. Most of the impact would be the
duty cycle imposed on such a busy node. It looks like maybe Salamo
could become quite a hub node. If it couldn't keep up with the demand,
it could be a prime candidate for a TNC3 retrofit. It's principal
scarce resource would be raw processing speed, and the TNC3 doubles that.
Taking the PMS code out of 1.75 gave us quite a bit more framebuffers,
since we got rid of a disk sector buffer and a directory buffer.

Anyhow, at some point in the next week or so, I need to freeze the
fixes and enhancements to the NCP code of this revision, and then
test it under the other platforms (1 and 2 port TNC2, and also the TNC3),
THEN start working on the actual kiss driver for the AXIP interface.

Progress on the AXIP kiss driver so far is as it was prior to HamCom.
I had got most of the RX code scratched down on paper where it would
patch into the SIO/SCC driver. I had also laid out some preliminary
stuff on the TX half of the code. Then there is some misc stuff, since
there are 4 ISR's for the SIO/SCC: RX, TX, external interrupts like DCD,
and special or exception interrupts like parity/framing/overrun errors.
Then there are some other misc things that need doing here and there.
One of them is a stats routine to output Linux and AXIP daemon stats
directly to the attached NCP over the serial link so that they can
be interrogated via TexNet (this is a sysop-permit-only function
since it might contain things like internet addresses of intruders).
I probably need to look at editing the firecode generation code to
implement something like a firecode-ssid to trigger chosen outputs of

an improved firecode detector. Seems like I touched on a little of
this on the 9600b modem firecode circuitry design last year.

I am going to implement a vertical checksum (XOR) in this kiss driver,
and make its use a configurable option. It is also possible to configure
any serial port for horizontal parity error detection, that is just
port setup, although the driver has to be capable of using a byte parity
error to kill the packet. It looks like I may have to make a parallel
addition to the AXIP code on the Linux end. I am concerned about it
because in some situations there may be a few hundred feet of cable from
NCP to the Linux PC at some sites, not just a 6 foot cord. Also, there
may be a need for optical isolation to prevent surge damage on these
long cables. But the long cabling introduces the possibility of noise,
and without error detection, we can easily corrupt the flow of traffic
through the network.

I am wondering at this time if it will be possible, or desirable, to
retain the local console function on a kiss interface node. They contend
for the same port on an NCP. We tossed out the console function on
the dualport TNC2, but then the whole port was transformed from async
to sync by cutting and patching traces, so it wouldn't be a plugin-swapout
type of thing that could be moved around at will. Also, even with
leaving out all of the PMS code from V1.75 on, there may be a codespace
prpblem on the NCP platform. I haven't missed the console function at
all on the dualport TNC2 nodes, but that is just a testbench issue, as
the nodes then go into remote sites, for instance Moody. Now, it is
easily feasible in hardware to implement bankswitching of eprom halves
on the NCP. It is a matter of cutting and jumpering one trace on the
EPROM socket on the NCP, and dropping in a 27512 in the socket. It is
relatively easy to partition the code, it is pretty modular as it is,
and retain all the L3 and higher functions in one or the other half.
Explaining that to the link loader has been an entirely different matter
however, and until I come up with a workaround, it won't happen.
BUT, then I have a problem with the NCPPC, which I use to both test
with, and to run day to day packet on too. I think primarily my problem
that I see here is a need to load each half of an expanded RAM over
the bus, as opposed to just dropping a bigger preprogrammed eprom into
a regular NCP. The bus loading system of the NCPPC has no counterpart
on the NCP, and I haven't figured a workaround. So, if I can't develop
and test expanded code, I can't ship it. NOW, also there is an issue
on the NCPPC if I use the 4th port as serial, I CAN still keep the
console routine over the bus interface, and dedicate the serial port to kiss.
But I can't do that on a regular NCP, so then console would be wasted code
in the 4 port NCP (3 ports hdlc, 1 port kiss). It is feasible on
the TNC3, which has 2 extra serial async ports. Anyhow, that's what I
am juggling around here now in the planning process.

As for Linux, current progress is that some time ago, I successfully
ported ZDEBUG for the NCPPC to Linux. It is a little klunky because
Linuc C handles keystroke input slightly differently (standard C),
compared to Turbo or Borland C which have some additional 1-stroke
routines. As it is, the Linux version demands the use of the enter key
after some of the intended 1-key menu commands. It seems to work fine
however. As far as I know, all of the functions are implemented, although
I haven't tested some of the fancy debugger commands. It loads and
dumps the NCPPC just fine and is plenty fast. It loads 24K in about
half a second on a fast K6. The assembly language s/r that Tom wrote
to do the bus access is now ported to C because that's what all of the
linux kernel code is, it's all C and I can't figure out the RPN or GNU
assembler language, nor even find any sample code in the system. It's
all C. Anyhow, there doesn't seem to be a speed problem with it.
ZDEBUG does fine, the whole kernel is that way and it screams.
Says a lot for fast buses and good tight code. Speed could actually
prove to be one of Linux' best advantages in the future, compared to
lots of other OS that aren't tightly coded.

I haven't yet had any luck writing a general communications interface
for Linux to the NCPPC. Something that I was doing wasn't right, and
it wasn't properly handling the card, even though I made it happen
doing the same sort of thing in ZDEBUG. So, under Linux, communicating
with the PC card over the bus, doing actual keyboard/crt or maybe
network I/O, is on hold while I find the problem in what I was doing.
I am fairly sure I wasn't properly describing byte operations in C.
The TSR I wrote for DOS to do that job is just fine, and I now run
it under Win, and it behaves there too. Even cuts and pastes with YAPP.

That one was written without any consideration to running under Win.
(TSR loads under DOS before calling Win 3.1)

Other things left to do deal with the internet in general. For security,
I don't want to put any more than the absolute minimum into any remote
PC attached to the internet, and right away the things that usually go
are telnet and ftp. I think that the only thing we really have to have
from day to day is some means to edit the internnal fixed routing tables,
and maybe to restart the AXIP daemon. At worst case, we might have to
send a file to some local individual to go physically load on the remote
disk, and/or go restart it when it hiccups. Also for security, I don't
want to make the routing visible, that is, publish the network addresses
either separately or in one place, or provide any means for anybody
to find out what they are from the system. It sounded like that at the
Salamo site downtown SAT, that the linux system might belong to someone
else (tapr) and we just would have the use of a process space and a port,
and someone else would have to manage it anyhow. This situation could
be typical of lots of potential sites. These things still need to
be explored. Then there is the subject of routers and firewalls in
general, and that is just a learning experience to go through for me.

(Right now, I don't think it is wise to even list the IP address lists
here. I saw a DXC bbs-type message flowing over the trunk the other
day, and it had a callsign of a DXC and some 4 byte internet address next
to it, and that sort of thing worries me at least at present).

I suspect that there will be some desireable tweaks to the AX25IP code
in Linux. It is an off the shelf package, and unless there is a later
version out that supports multiple packet destination (broadcast to all
the members of a destination table), I will have to modify it to do so,
or we won't be able to do anything other than point to point trunks.
I am thinking also about modifying it to reject inbound packets from
the ethernet that aren't on its destination list, they would be
considered to be intruders, and presently it just sticks them on the
air, even though if not in the table they wouldn't be capable of a
response in the reverse direction. To do anything harmful, they
would have to be UI's, but UI's can do damage and also carry traffic
if they digipeat through the node or trip the firecode register.

Joe has proposed maybe running JNOS under DOS as an alternative. I
am not familiar with that package, and my first question is whether or
not it supports multiple destinations. If it doesn't, second question
is whether it includes sourcecode, or how one goes about modifying it.
About all that I know is that it does AX25IP as one of its functions.
Until someone looks into that question, JNOS is not certain as a solution.

I haven't done anything else to the bench mockup here except let it run.
One end (one which I think I don't have an effective swap partition,
remains on the debugging list) drops the AXIP daemon from time to time.
The other end hasn't hiccuped once to date. The extra TNC2's running
kiss sure slow things down, and that would go out the window when the
kiss driver is added to the NCP. I have loaded the new code into both
sides of this mockup, and that doesn't seem to be any factor one way
or the other.

I think that the current list of prospective nodes is existing sites
at Denton and Salamo (if Salamo does prove to be in the same bldg as
Fibercom), Midland, Laredo, someplace in either Muskogee or Tulsa,
someplace near Lafayette La (WU3V) and one of his buddies in Houston.
Correspondence I have had with WU3V indicated he would like to take
TexNet all the way to New Orleans if he had his way with his locals.
Ken in Ft Worth has made noises about possibly offering a connection.

I think that El Paso would also be another place to follow up on,
maybe after we get a few other things up and running. I think Harry
knows someone there, he bought the proposed El Paso node back from
someone out there and made it into Kerrville. (Kerville has been
running as a spare at Rockport for a while - I just handed the ROCPRT
node back to Paul at HamCom). I think that the El Paso link fell
through for reasons related to site insurance with a proposed line
donor, perhaps it would be a different case with an ISP and a different site.

Also, every time I visit with my friend Larry Eblen, the meteorologist
at the regional AUS-SAT NWS, he seems to be concerned about extending
the packet network to Del Rio. Now, I don't know ANYBODY that knows
ANYBODY in Del Rio, but it seems like the NWS would like to see some

activity that direction. I think they recently found some interested
county officials there during a briefing trip after Jarrell, maybe
that will start something. I think I spotted 4 to 6 potential
nodes in series to get a radio trunk out that way fron SAT, so the internet
looks like the only game in town that direction. Maybe Frank Aguilar
may have some ideas along that way?

There is an internet connection to the DXC node in the valley that I
would like to follow up on. It sort of looked like the DXC was hardwired
to the Valley node also, as opposed to being on a radio link, so it
makes me wonder if there isn't a possibility of doing the same site thing
there. Considering that the worst case of widespread failure of TexNet
would be a hurricane hitting S Texas, and the amount of support that
folks in the valley give packet, triple redundancy to that part of
the state makes sense. We currently have radio circuits down there,
and a couple of them at least are fairly shaky if there are power problems.
Falfur and Alice are the ones that worry me. We have under construction,
awaiting installation, a second fiber circuit from SAT to someplace,
seems like it may be Raymondville. If we were to find we could also have
an internet link in the future, it looks like it wouldn't hurt any.
But for other reasons, I would like to get the valley fiberline up and
running first, or there might be some laxity occur in ever finishing it.

So much for things this week. Got too long again...
73 de Bob WB5AOH

From morganb@inetport.com Sun Jun 14 20:37:23 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
UAA18069 for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 20:37:22 -0500 (CDT)
Received: from as01-39.inetport.com (as01-47.inetport.com [204.96.100.127])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id UAA27669
for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 20:37:27 -0500 (CDT)
Message-Id: <3.0.1.16.19980615010853.2c170058@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Mon, 15 Jun 1998 01:08:53
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Which version for Linux Box?
In-Reply-To: <35843CB4.8D4E3B64@Aguilar.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 04:18 PM 6/14/98 -0500, you wrote:
>Bob,
>
>Which version of Linux would you recommend for this?
>Slackware or Red Hat?
>
>I'm pounding new turf so pardon if its a silly question.
>
>Frank, N5SSH

No, that isn't silly. And I am getting in new turf too...

It sounds like a repeat of a serious discussion we had at the local
Linux group last week. The general outcome of that was a general
ranking of the various distributions with reliability and stability
on one end of a scale, and radical undertested bleeding edge development
on the other end of the scale, which might tend to crash or possibly
have problems with installations. We placed SuSE on the conservative
end of the scale, RedHat and Debian on the radical edge, and Slackware
was somewhere in between. Right now there seems to be a process of
developing a new general library for Linux, and it isn't going real
smooth and there are some latent problems with some of the new stuff.
When that GLIBC/LIBC problem gets solved, things will probably be
lots better, and that may be at the bottom of it, at least as
new kernels are concerned. There is one real BAD revision of RedHat
that came out recently, lots of headaches, and errata was posted
before the release actually hit the streets. Whatever that one is
stay away from it. I don't recall the version no.

I have only tinkered with SuSE 5.1 to date. Our local group got a good
deal on a group purchase, and that was the criterion at the time.
It has been bulletproof as far as not crashing here is concerned, and
I got it up and running OK considering the learning curve. One of

the local gurus usually has a weekly discussion with the developers
at SuSE to work out ideas and problems, and right now we can get
things taken care of and send feedback. So far I am pleased with it.
I think that they are up to 5.3 now, still with a good tested kernel.

I think Greg had a story from last year to tell about getting two versions
of Linux running against a deadline for an SS demo, seems like it was
Slackware that won there, but better get his version to be sure.
The involved factors might be ancient history now as far as I know.

If this node is planned to be one that is easily accessible to you when
it needs attention, then reliability isn't the burning issue it might
be if it is hard to get to. Of course we would like to have it up and
running all the time without any hiccups, and Linux in general is
capable of doing that. The other issue is that of just finding one
that the AX25IPD package will install and compile on without any extra
hassles. There also seems to be quite a range of price deals of the
various distributions, so don't get burned if you can help it.

Seems like I went through a juggling act of finding which general AX25
release and kernel release would satisfy all of the compile/link/lib
requirements to get everything defined. AX25IPD isn't a part of the
big overall AX.25 Linux package, but it does assume that the libraries
for AX.25 are resident to compile against, and that they have to match
certain OS revisions. I think I had to cobble up a few symbols
manually myself, and may still have a few things I can't find.
But I did force it to do its thing. AX25IPD was just posted on the internet
someplace, and I am not sure I have the most current version. Documentation
leads me to think I don't. Remember that AX25IPD is a fairly small
simple routine, it isn't a huge thing like AX25 itself. It is basically
just a digipeat routing program, and after it is compiled it is
self contained, with one config file. It doesn't put many demands on
the system other than we want it to be reliable so we won't have to
tinker with the box all the time to keep it running.

73 de Bob WB5AOH

From dallen@cei.net Sun Jun 14 21:08:50 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
VAA20073 for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 21:08:49 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id VAA21030
for <texnetaxip@tapr.org>; Sun, 14 Jun 1998 21:08:42 -0500 (CDT)
Message-Id: <3.0.5.32.19980614210839.0083ebf0@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Sun, 14 Jun 1998 21:08:39 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:6] Re: Which version for Linux Box?
In-Reply-To: <3.0.1.16.19980615010853.2c170058@inetport.com>
References: <35843CB4.8D4E3B64@Aguilar.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have had the best overall repeateable luck with slakware. RedHat is a
bit obtuse for someone first starting out. It seems to be fond of putting
things in different directories then the other linux distributions. I have
a friend who just moved from slakware to SuSE. He seems to be happy. I am
currently using slakware 3 with ver 1.2.32 kernel at work as a
mail/DNS/proxy server. I would agree with Bob that Linux can be fairly
bulletproof. My system at work supports 40+ users. I have had uptimes in
excess of 120 days. The only reason the system was booted then was to
install a tape drive.

Allen
-kb5sqk-

At 08:40 PM 6/14/98 -0500, you wrote:
>At 04:18 PM 6/14/98 -0500, you wrote:
>>Bob,
>>
>>Which version of Linux would you recommend for this?
>>Slackware or Red Hat?
>>
>>I'm pounding new turf so pardon if its a silly question.

>>
>>Frank, N5SSH
>
>No, that isn't silly. And I am getting in new turf too...
>I have only tinkered with SuSE 5.1 to date.
>
>I think Greg had a story from last year to tell about getting two versions
>of Linux running against a deadline for an SS demo, seems like it was
>Slackware that won there, but better get his version to be sure.
>73 de Bob WB5AOH
>
>
>

From wa5vms@tapr.org Tue Jun 16 06:23:44 1998
Received: from Pjsboro.intellex.com ([206.214.204.185]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA25907
for <texnetaxip@tapr.org>; Tue, 16 Jun 1998 06:23:42 -0500 (CDT)
Message-Id: <3.0.32.19980616070115.00b137b0@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Tue, 16 Jun 1998 07:01:18 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Linux
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

One good reason to stay away from RedHat is V5.0.

>From what I understand, they made some changes in this distribution that
broke some existing amateur programs.

Joe

From wd5ivd@tapr.org Tue Jun 16 10:53:51 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id KAA16862 for <texnetaxip>; Tue, 16 Jun 1998 10:53:50 -0500 (CDT)
Message-Id: <v04003a11b1ac42e467aa@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 16 Jun 1998 10:53:31 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Linux / non-environmental controlled locations

To recount my story with Linux two years ago now. I purchased RedHat and
tried to install it and had all sorts of install problems on two different
machines. After talking to Allen I went and got Slakeware and it installed
the first time on the two machines I had.

Now, that was many revs ago, so I figure both have probably gotten better.
I still prefer Slakware, since I know how the install works without having
to figure out another distribution.

Several small issues for us putting a machine up in a building without
environmental control (i.e. Denton site).

1. John (who is on the list) is getting the Flashcard Boot system layed out
and hopefully we have a built unit available sometime before the end of the
year. That will allow us to not need a IDE HD to keep up with the temp
swings.

2. Allen, John, Steve Stroh, and I have been looking for a commercial grade
power supply to support a PC, but really haven't found a good solution yet
that also doesn't cost a small fortune. Maybe someone has a suggestion of
potential sources we can continue to look into.

3. Reset. Bob mentioned it. Maybe it is as simpe as that we run a script
to shutdown each night and then have an external power switch to then power
it on and off a minute or two after it is shutdown. One project we had
discussed a while back was to have a plug in card that could toggle the
reset line on the bus that had some type of outside control. Like use a
DAS kit for a touchtone reset locally monitoring one of the two meter
ports.

As of now, I don't see us putting many Linux/TexNetAXIP boxes in locations
that someone is not in some local 2-meter control over.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From morganb@inetport.com Wed Jun 17 10:52:43 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
KAA14482 for <texnetaxip@tapr.org>; Wed, 17 Jun 1998 10:52:42 -0500 (CDT)
Received: from as01-10.inetport.com (as01-10.inetport.com [204.96.100.90])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id KAA22114
for <texnetaxip@tapr.org>; Wed, 17 Jun 1998 10:52:44 -0500 (CDT)
Message-Id: <3.0.1.16.19980617030253.1abfc5ec@inetport.com>
X-Sender: morganb@inetport.com (Unverified)
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Wed, 17 Jun 1998 03:02:53
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Linux
In-Reply-To: <v04003a11b1ac42e467aa@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:54 AM 6/16/98 -0500, you wrote:
>To recount my story with Linux two years ago now. I purchased RedHat and
>tried to install it and had all sorts of install problems on two different
>machines. After talking to Allen I went and got Slakeware and it installed
>the first time on the two machines I had.

Man, was that TWO years ago???? Guess if time flies when you are
having fun, we really been having a blast!

Anyhow, here is a bit of news, sounds encouraging,

Had a quick powerfail this morning, and both Linux boxes came back
up. They complained about file systems not being closed, but they
rebuilt OK without file rescue intervention from the keyboard. I haven't
scripted the AXIP daemon yet, and had to re-enter them from the keyboard,
but other than that step, which of course will be done for the real
systems, it came back by itself. It was just a quick recloser operation
(and Austin Util has its reclosing intervals set as quick as any I
have ever seen) and neither NCPPC dropped out, just the PC's that had their
reset lines driven from the PC power supply.

73 de Bob WB5AOH

From wa5vms@tapr.org Fri Jun 19 17:23:50 1998
Received: from Pjsboro.intellex.com ([206.214.204.159]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id RAA21730
for <texnetaxip@tapr.org>; Fri, 19 Jun 1998 17:23:48 -0500 (CDT)
Message-Id: <3.0.32.19980619180116.00a9b738@tapr.org>
X-Sender: wa5vms@tapr.org (Unverified)
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Fri, 19 Jun 1998 18:01:40 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Good News
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I mananged to clear another hurdle that was in the way of the Internet
connection here in Muskogee.

The ISP that I have been dealing with, MNET, is located on the second floor
of an office building in downtown Muskogee.

There had been some concern as to how to approach the building owner for
permission to put up an outside antenna.

Immediately next door to the MNET building is the old Roxy theatre.

The Roxy has been closed since 1963 but has been recently purchased for use
as a community playhouse.

The City of Muskogee is providing the major funding for the renovation.

I know quite a bit about the old Roxy since I worked for Broadway Theatres
Inc. in the early 70's. Although the Roxy was shut down, I was in there
from time to time and I know the layout of the bldg.

I was able to get permission to put an antenna on the Roxy roof PROVIDED
that it can not be seen from the street.

Due to the design of the bldg, this is not a problem and it will provide a
better path to my home QTH.

I estimate about 50 feet of LMR-600 hardline to the radio.

The antenna will be a commercial 13.5 dB gain affair with a fiberglass radome.

This should make a good disguise antenna.

Joe

From wa5vms@tapr.org Sun Jun 21 19:21:56 1998
Received: from Pjsboro.intellex.com ([206.214.204.189]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id TAA18360
for <texnetaxip@tapr.org>; Sun, 21 Jun 1998 19:21:54 -0500 (CDT)
Message-Id: <3.0.32.19980621195951.00a9f410@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 21 Jun 1998 19:59:56 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Slattach
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I have been fighting the slattach command under Slackware 2.0.29 this weekend.

I need to set up a slip connection between Linux and JNOS or TNOS. Part of
the installation requires a slip connection be established.

I will also need to set up a slip connection to feed data do this machine.
This is the Pent 60 machine that I have built and will install at the
FTGIBSN Texnet node site.

This machine will run NOS under Linux to feed the TCP-IP crowd up here and
will also support AX25IP for the Texnet connection. Might even end up
supplying DX Cluster spots.

So far, I have found very little documentation on slattach and the command
syntax.

There is only a bit of info in the Slackware man pages.

I even tried to setup that Greg used when he set up the Freewave radios at
UNT in Denton. So far, slattach does NOT like any command syntax that I
have thrown at it.

I have tried the slip settings in Net HOWTO and slattach does not like them
either.

It does accept a command like usr/sbin slattach /dev/cua2 38400

Bob tells me that there is a fellow in Austin that is fighting similar
problems with slattach.

Could be something that has changed with this distribution. I had a heck of
a time getting my SCSI CDROM mounted.

When Slackware boots, it refers to the CD as sr0. To access, you have to
refer to the CD as /dev/scd0.

I looked over all of the info in the SCSI HOW-TO and it indicated that the
correct reference to a SCSI CD was /dev/sr0.

I stumbled on to the correct designation by trial and error. no mention was
made of this change in the CD dev designation.

I wonder if the same has happened to slattach command syntax.

Any thoughts on this from the group.

Joe

From wd5ivd@tapr.org Sun Jun 21 22:26:17 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id WAA27168 for <texnetaxip@tapr.org>; Sun, 21 Jun 1998 22:26:15 -0500 (CDT)
Message-Id: <v04003a0ab1b37f1dcbde@[207.8.125.50]>
In-Reply-To: <3.0.32.19980621195951.00a9f410@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 21 Jun 1998 22:26:06 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:12] Slattach

Here is an example:

#/bin/setserial -v /dev/ttyS1 spd_hi
/usr/sbin/slattach -L -d -s 38400 -p slip /dev/ttyS1 &
sleep 1
#
/sbin/ifconfig sl0 129.120.111.42
/sbin/ifconfig sl0 pointopoint 129.120.111.41
/sbin/ifconfig sl0 mtu 1500

>Hello All
>
>I have been fighting the slattach command under Slackware 2.0.29 this weekend.
>
>I need to set up a slip connection between Linux and JNOS or TNOS. Part of
>the installation requires a slip connection be established.
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>will also support AX25IP for the Texnet connection. Might even end up
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>
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>either.
>
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>problems with slattach.
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>made of this change in the CD dev designation.
>
>I wonder if the same has happened to slattach command syntax.
>

>Any thoughts on this from the group.
>
>Joe

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From wa5vms@tapr.org Mon Jun 22 06:29:00 1998
Received: from Pjsboro.intellex.com ([206.214.204.158]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA02380
for <texnetaxip@tapr.org>; Mon, 22 Jun 1998 06:28:57 -0500 (CDT)
Message-Id: <3.0.32.19980622070653.00b25e78@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 22 Jun 1998 07:07:01 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:13] Re: Slattach
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Greg

I tried the onethat you sent me which is similar to one that I tried
yesterday.

This is the reply that I get back when I attempt to enter your info.

usage: slattach [-h] [-c] [-6] ttyname [baudrate]

This is the same reply that I get when I have tried other variations.

The only thing that it WILL accept is something like

/usr/sbin slattach /dev/ttyS1 38400

I have tried on two different machines, both running Slackware 2.0.29.

I guess it's off to sunsite to grab some mini HOW-TO's. Maybe I can find
something there.

Joe

At 10:28 PM 6/21/98 -0500, you wrote:
>Here is an example:
>
>#/bin/setserial -v /dev/ttyS1 spd_hi
>/usr/sbin/slattach -L -d -s 38400 -p slip /dev/ttyS1 &
>sleep 1
>#
>/sbin/ifconfig sl0 129.120.111.42
>/sbin/ifconfig sl0 pointopoint 129.120.111.41
>/sbin/ifconfig sl0 mtu 1500
>
>
>
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>>made of this change in the CD dev designation.
>>
>>I wonder if the same has happened to slattach command syntax.
>>
>>Any thoughts on this from the group.
>>
>>Joe
>
>
>-----
>Greg Jones, WD5IVD Austin, Texas
>wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>
>
>Real World, The n.:
> 5. Anywhere outside a university. "Poor fellow, he's left UT
>Austin and gone into the real world."
>
>
>
>

From morganb@inetport.com Mon Jun 22 12:44:37 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
MAA09160 for <texnetaxip@tapr.org>; Mon, 22 Jun 1998 12:44:36 -0500 (CDT)
Received: from as01-42.inetport.com (as01-42.inetport.com [204.96.100.122])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id MAA10148;
Mon, 22 Jun 1998 12:44:33 -0500 (CDT)
Message-Id: <3.0.1.16.19980622173018.2c8f1bbc@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Mon, 22 Jun 1998 17:30:18
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Slattach
Cc: w5lon@inetport.com
In-Reply-To: <3.0.32.19980621195951.00a9f410@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:23 PM 6/21/98 -0500, you wrote:
>Hello All
>
>I have been fighting the slattach command under Slackware 2.0.29 this
weekend.
>
>I need to set up a slip connection between Linux and JNOS or TNOS. Part of
>the installation requires a slip connection be established.

A look at the AX25-HOWTO (para 21.4) in Linux talks a little bit about
piping NOS to Linux, as opposed to defining separate hardware serial ports
for each, and tying them back to back with 6" of wire. Toward the end of
this file (do a search on slattach), they mention defining this pipe.
There exist in Linux some pipe devices, of the form ptyq(0-f) for the master
end of the pipe, and the matching end ttyq(0-f) for the slave end, for
16 different pipes. They should show up in the /dev/ directory as such,
for instance /dev/ptyqf and /dev/ttyqf. So first determine if they indeed
exist.
(Assuming that you do want the internal pipe, not the external connection
to the outside world).

It then explains to first define the master end of the pipe, the one used
by Linux. This one apparantly is the one that one uses slattach for.
It sounds like from all that I have heard, slattach is poorly documented.
I couldn't even find it on my distribution. Stu Green (Austin Linux group)
said that when he talked to SuSE last time, they inadvertently left it out.
Some of the diagnostics may center around using it as a daemon. I suspect
that the -d option Greg is suggesting probably means for the OS to load it in
its daemon mode, and most likely it means that one must use the ampersand
at the tail end of the line, that tells Linux to run it in the background.
(While I am not sure, it may also squelch its error outputs). Use
ps -aux to see the list of what is running, if it is running, it ought
to be in the process list somewhere. Then they went on to explain that
the slave end must be set up after the master end is set up, that I think
would be the standard attach command that NOS would be using. In a pipe
application, the speed settings would be irrelevant but they might possibly
be required to satisfy the syntaxes. I haven't tried it myself, and
it isn't on my system.

>I will also need to set up a slip connection to feed data do this machine.
>This is the Pent 60 machine that I have built and will install at the
>FTGIBSN Texnet node site.
>
>This machine will run NOS under Linux to feed the TCP-IP crowd up here and
>will also support AX25IP for the Texnet connection. Might even end up
>supplying DX Cluster spots.
>
>So far, I have found very little documentation on slattach and the command
>syntax.
>
>There is only a bit of info in the Slackware man pages.
>
>I even tried to setup that Greg used when he set up the Freewave radios at
>UNT in Denton. So far, slattach does NOT like any command syntax that I
>have thrown at it.
>
>I have tried the slip settings in Net HOWTO and slattach does not like them
>either.
>
>It does accept a command like usr/sbin slattach /dev/cua2 38400
>
>Bob tells me that there is a fellow in Austin that is fighting similar
>problems with slattach.

That's Tom, W5LON, he is cc on this mail. Tom, the rest of the folks on
this list are the group in TexNet that is trying to implement AX25IP,
and mostly Joe WA5VMS in Muskogee, who is also trying to call SLATTACH
for a NOS use. Anyhow, there are two groups of hams that are struggling
with this call simultaneously, subsets of two different mailing lists,
and I am looking at both looking for whatever there is in common. Joe
and Tom, you may want to carry on independent e-mail
Joe=wa5vms@tapr.org Tom=w5lon@inetport.com

Hi Greg

I tried the onethat you sent me which is similar to one that I tried
yesterday.

This is the reply that I get back when I attempt to enter your info.

usage: slattach [-h] [-c] [-6] ttyname [baudrate]

This is the same reply that I get when I have tried other variations.

The only thing that it WILL accept is something like

/usr/sbin slattach /dev/ttyS1 38400

I have tried on two different machines, both running Slackware 2.0.29.

I guess it's off to sunsite to grab some mini HOW-TO's. Maybe I can find
something there.

Joe

Tom, here is some of the rest of the discussion, I had to paste two mails
together. You might try some of this: remember that the # in front
comments something out and renders it ineffective. (Looks like someone
wrote script to replace setserial with slattach).

At 10:28 PM 6/21/98 -0500, you wrote:
>Here is an example:
>
>#/bin/setserial -v /dev/ttyS1 spd_hi
>/usr/sbin/slattach -L -d -s 38400 -p slip /dev/ttyS1 &
>sleep 1
>#
>/sbin/ifconfig sl0 129.120.111.42
>/sbin/ifconfig sl0 pointopoint 129.120.111.41
>/sbin/ifconfig sl0 mtu 1500
>
>

Now here are Tom's last comments pasted in--

Hey Stu Green :

Your S.u.S.E. 5.2 compile of slattach didn't trash out my h/d like
donn's version did. That's the good news.

I'm getting an error message reading "slattach: tty_open (/dev/ptypf
RW): I/O error"

The application "TNOS" is working but about like a lame draft horse.

Any ideas?

Regards - TomK

----Now, what little I can see of this from a distance:
Tom: try /dev/ptyqf instead of ptypf. Maybe a dislexic keyboard??
I am not sure if ptypf is a pipe, or if it is something else.

Joe: if you indeed are needing a pipe, make sure you do an attach or slattach
to /dev/ptyqf FIRST, and later do the other call to /dev/ttyqf.

Both: make sure these devices really exist in the /dev subdir first.
If they aren't there you can't use them (or have to define them first so
that they do exist when you attach them). Also, if one is inadvertendly
using compressed-slip that is only slowing things down, since it is
an internal pipe not an external slow media.

If need be, I can post that paragraph I referred to above. It seems to
have some useful comments in it. Let me know if you don't have it handy.

73 de Bob WB5AOH

From wd5ivd@tapr.org Mon Jun 22 14:15:37 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id OAA14045 for <texnetaxip@tapr.org>; Mon, 22 Jun 1998 14:15:34 -0500 (CDT)
Message-Id: <v04003a10b1b45c04be41@[207.8.125.50]>
In-Reply-To: <3.0.32.19980622070653.00b25e78@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 22 Jun 1998 14:13:34 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:14] Re: Slattach

>Hi Greg
>
>I tried the onethat you sent me which is similar to one that I tried
>yesterday.
>

>This is the reply that I get back when I attempt to enter your info.
>
>usage: slattach [-h] [-c] [-6] ttyname [baudrate]

Hum. Well welcome to UNIX. If I had access to the system, which is now
dead, I would send you the binary of the slattach that I used and you would
probably be okay.

Send me the man file for your slattach as a private e-mail that I can look at.
Here is the command to do it

man slattach > outputfile

THen just e-mail me the outputfile

>This is the same reply that I get when I have tried other variations.
>
>The only thing that it WILL accept is something like
>
>/usr/sbin slattach /dev/ttyS1 38400

Here is another one that I used in the distant past:
/usr/sbin/slattach2 -L -s 38400 -p slip /dev/ttyS0

>I have tried on two different machines, both running Slackware 2.0.29.
>
>I guess it's off to sunsite to grab some mini HOW-TO's. Maybe I can find
>something there.

>>/usr/sbin/slattach -L -d -s 38400 -p slip /dev/ttyS1 &

But it keeps looking like your slattach doesn't support all the functions
of the slattach I used on several different machines.

Something to ask Allen about. You really need several of those commands to
keep the link working over a serial port. One of them tell the system to
ignore line status, which on e freewaves was a must.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w5lon@inetport.com Mon Jun 22 16:12:47 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
QAA22355; Mon, 22 Jun 1998 16:12:45 -0500 (CDT)
Received: from inetport.com (as01-14.inetport.com [204.96.100.94])
by admin.inetport.com (8.8.8/8.8.5) with ESMTP id QAA22509;
Mon, 22 Jun 1998 16:12:50 -0500 (CDT)
Message-ID: <358EC851.35E1765C@inetport.com>
Date: Mon, 22 Jun 1998 16:10:41 -0500
From: "Tom E.Kormanik" <w5lon@inetport.com>
X-Mailer: Mozilla 4.05 [en] (Win95; I)
MIME-Version: 1.0
To: "Robert B. Morgan" <morganb@inetport.com>
CC: texnetaxip@tapr.org, wa5vms@tapr.org
Subject: Re: Slattach
References: <3.0.1.16.19980622173018.2c8f1bbc@inetport.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Robert B. Morgan wrote:

> >Bob tells me that there is a fellow in Austin that is fighting similar
> >problems with slattach.
>
> That's Tom, W5LON, he is cc on this mail. Tom, the rest of the folks on
> this list are the group in TexNet that is trying to implement AX25IP,
> and mostly Joe WA5VMS in Muskogee, who is also trying to call SLATTACH
> for a NOS use. Anyhow, there are two groups of hams that are struggling
> with this call simultaneously, subsets of two different mailing lists,
> and I am looking at both looking for whatever there is in common.

>
> Hi Greg
>
> I tried the onethat you sent me which is similar to one that I tried
> yesterday.
>
> This is the reply that I get back when I attempt to enter your info.
>
> usage: slattach [-h] [-c] [-6] ttyname [baudrate]
>
> This is the same reply that I get when I have tried other variations.
>
> The only thing that it WILL accept is something like
>
> /usr/sbin slattach /dev/ttyS1 38400
>
>
> Joe
>
> Tom, here is some of the rest of the discussion
> >Here is an example:
> >
> >#/bin/setserial -v /dev/ttyS1 spd_hi
> >/usr/sbin/slattach -L -d -s 38400 -p slip /dev/ttyS1 &
> >sleep 1
> >#
> >/sbin/ifconfig sl0 129.120.111.42
> >/sbin/ifconfig sl0 pointopoint 129.120.111.41
> >/sbin/ifconfig sl0 mtu 1500
> >
> >
>
> Now here are Tom's last comments
>
> At least your S.u.S.E. 5.2 compile of slattach didn't trash out my h/d .
>
> I'm getting an error message reading "slattach: tty_open (/dev/ptypf
> RW): I/O error"
>
> The application "TNOS" is working but about like a lame draft horse.
>
>
> Regards - TomK
>
> ----Now, what little I can see of this from a distance:

> Tom: try /dev/ptyqf instead of ptypf. Maybe a dislexic keyboard??
> I am not sure if ptypf is a pipe, or if it is something else.

> Both: make sure these devices really exist in the /dev subdir first.
> If they aren't there you can't use them (or have to define them first sothat
> they do exist when you attach them).

> Also, if one is inadvertendly using compressed-slip that is only slowing things
> down, since it is an internal pipe not an external slow media.

> If need be, I can post that paragraph I referred to above. It seems to
> have some useful comments in it. Let me know if you don't have it handy.
>
> 73 de Bob WB5AOH

Bob,

> I checked and determined that /dev/ptypf does exist in my device

> subdirectory just above ptyqf.

I have included the slattach command in my "startnos" bootup file
to insure that it is run prior to it's complimentary slave command.

The line looks like this*:
/usr/sbin/slattach -s 38400 -p slip /dev/ptypf &

The error appears on the tty that I run this TNOS bootup script
from , typically tty1. The application comes up on tty7 and no
errors appear here. The error reads :

slattach: tty_open(/dev/ptypf, RW): I/O error

Running "ps aux" shows slattach to be active and both ax25 &
TCP/IP are working, albeit sluggishly.

Thanks fer including me on your cc list. I appreciate your effort.
You've gone the extra mile. Come by and we'll toast something
or other.

73 de TomK

*This syntax is not chiseled in granite. When I used Slackware
the command looked differently.

From wa5vms@tapr.org Mon Jun 22 17:24:22 1998
Received: from Pjsboro.intellex.com ([206.214.204.172]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id RAA27146
for <texnetaxip@tapr.org>; Mon, 22 Jun 1998 17:24:20 -0500 (CDT)
Message-Id: <3.0.32.19980622180222.00a9e56c@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 22 Jun 1998 18:02:26 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Device
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bob

I need two slip connections established.

One is internal to the machine and if I remember right, I need to connect
to /dev/ptypf

This device is present so that is not a problem.

This is the "hook" between NOS and Linux.

The other will be a standard slip connection to the serial port.

This will be the actual IP feed to this machine.

The current plan is to get the Internet connection to my house where I will
run it through a firewall. That way I can control what the TCP-IP folks get
for a feed.

This control and firewall will be required by the ISP.

I should know if I have the connection at the ISP by Wednesday.

Having roof rights at the Roxy Theatre sure helped out. The ISP was not
crazy about dealing with that issue.

Same old story as with the wirelines in Texas. Free connection, no way to
get it out of the bldg.

Joe

From wa5vms@tapr.org Tue Jun 23 21:00:46 1998
Received: from Pjsboro.intellex.com ([206.214.204.153]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id VAA19876
for <texnetaxip@tapr.org>; Tue, 23 Jun 1998 21:00:43 -0500 (CDT)
Message-Id: <3.0.32.19980623213850.006856d4@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Tue, 23 Jun 1998 21:38:55 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Slattach
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I think ???? I may have things up and running under SLIP.

In the TNOS/Linux setup file I used the slattach syntax that would work:

/usr/sbin/slattach /dev/ptypf 38400 & sleep 1

instead of the sample syntax from the TNOS Setup file which was

/usr/sbin/slattach -s 38400 -p slip /dev/ptypf & sleep 1

I followed by adding the necessary routes using the route command

/sbin/route add 192.168.0.5 sl0

The above is just part of the route info. I wanted to save all of the extra
typing.

When I do an ifconfig, I get back the following report:

Besides all of the ususal local and eth0 reports,

I receive sl0 Link encap: Serial Line IP

and then the correct address info.

I also played with some of the Freewave setup that Greg had used a couple
of years back(I knew I saved that piece of e-mail for some reason) and the
connection came up defined under ifconfig as a SLIP IP connection.

I DID have to modify the slattach info from Greg's setup to the following

/usr/sbin/slattach /dev/ttyS2 38400 & sleep 1

Any thoughts on this one.

I guess if it works.....

Joe

From w9ddd@tapr.org Tue Jun 23 22:10:17 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id WAA23410; Tue, 23 Jun 1998 22:10:16 -0500
(CDT)
Date: Tue, 23 Jun 1998 22:10:15 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:19] Slattach
In-Reply-To: <3.0.32.19980623213850.006856d4@tapr.org>
Message-ID: <Pine.BSI.3.91.980623220331.22824B-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I did finally find the source code for slattach. It wasn't with the
earlier Slakeware dist (or I didn't install it). One of these days I
need to upgrade this one machine to the newer stuff.

Anyhow I found that I could remember some of the way the command line
parameters are passed into the program and parsed.

The -s parameter is definately not valid for the version I believe you
have there Joe. (only h, c, & 6 are valid...and optional) That would make
the command fail right there.

Anyhow since you've gotten past that hurdle, I'll suspend my C refresher
course for now and go back to reading the latest issue of TCJ that
arrived today.

John Koster, W9DDD
<w9ddd@tapr.org>

On Tue, 23 Jun 1998, Joe S. Borovetz wrote:

> Hello All
>
> I think ???? I may have things up and running under SLIP.
>
> In the TNOS/Linux setup file I used the slattach syntax that would work:
>
> /usr/sbin/slattach /dev/ptypf 38400 & sleep 1
>
> instead of the sample syntax from the TNOS Setup file which was
>
> /usr/sbin/slattach -s 38400 -p slip /dev/ptypf & sleep 1
>
> I followed by adding the necessary routes using the route command
>

> /sbin/route add 192.168.0.5 sl0
>
> The above is just part of the route info. I wanted to save all of the extra
> typing.
>
> When I do an ifconfig, I get back the following report:
>
> Besides all of the ususal local and eth0 reports,
>
> I receive sl0 Link encap: Serial Line IP
>
> and then the correct address info.
>
> I also played with some of the Freewave setup that Greg had used a couple
> of years back(I knew I saved that piece of e-mail for some reason) and the
> connection came up defined under ifconfig as a SLIP IP connection.
>
> I DID have to modify the slattach info from Greg's setup to the following
>
> /usr/sbin/slattach /dev/ttyS2 38400 & sleep 1
>
> Any thoughts on this one.
>
> I guess if it works.....
>
> Joe
>
>
>
>
>
>
>
>
>

From dallen@cei.net Wed Jun 24 01:45:47 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
BAA15261 for <texnetaxip@tapr.org>; Wed, 24 Jun 1998 01:45:45 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id XAA13111
for <texnetaxip@tapr.org>; Tue, 23 Jun 1998 23:23:30 -0500 (CDT)
Message-Id: <3.0.5.32.19980623232323.007ab520@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Tue, 23 Jun 1998 23:23:23 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:19] Slattach
In-Reply-To: <3.0.32.19980623213850.006856d4@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Joe (& the group)

I finished the download of Tnos last night and unpacked it late this
evening. I ran the config script and I'm down to ferretting out some things
that nos is complaining about on startup. I'm probably an evening or two
away from a clean no-complaints startup. My next task is to scrouge up a
demod chip for my old mfj tnc-2. In parallel with this effort, I'm
continuing work on my no-disk linux box. I managed to lose the ethernet
card I had originally started with, so I'll have to come up with a
replacement and re-compile if its not a ne2000 clone. With the 8 meg
flashram card I have, I ought to be able to fit all the networking utils
for router functions in a compressed root filesystem with room to spare. I
wonder if it would be worth the effort to try and squeeze nos onto the
diskless router box?

Allen

At 09:05 PM 6/23/98 -0500, you wrote:
>Hello All
>
>I think ???? I may have things up and running under SLIP.
>

>In the TNOS/Linux setup file I used the slattach syntax that would work:
>
>/usr/sbin/slattach /dev/ptypf 38400 & sleep 1
>
>instead of the sample syntax from the TNOS Setup file which was
>
>/usr/sbin/slattach -s 38400 -p slip /dev/ptypf & sleep 1
>
>I followed by adding the necessary routes using the route command
>
>/sbin/route add 192.168.0.5 sl0
>
>The above is just part of the route info. I wanted to save all of the extra
>typing.
>
>When I do an ifconfig, I get back the following report:
>
>Besides all of the ususal local and eth0 reports,
>
>I receive sl0 Link encap: Serial Line IP
>
>and then the correct address info.
>
>I also played with some of the Freewave setup that Greg had used a couple
>of years back(I knew I saved that piece of e-mail for some reason) and the
>connection came up defined under ifconfig as a SLIP IP connection.
>
>I DID have to modify the slattach info from Greg's setup to the following
>
>/usr/sbin/slattach /dev/ttyS2 38400 & sleep 1
>
>Any thoughts on this one.
>
>I guess if it works.....
>
>Joe
>
>
>
>
>
>
>
>
>
>

From wa5vms@tapr.org Wed Jun 24 06:34:50 1998
Received: from Pjsboro.intellex.com ([206.214.204.191]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA07065
for <texnetaxip@tapr.org>; Wed, 24 Jun 1998 06:34:48 -0500 (CDT)
Message-Id: <3.0.32.19980624071257.00b26c80@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Wed, 24 Jun 1998 07:13:01 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: NOS and diskles router box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Allen

It would be nice if NOS could be a part of the install.

I do not think that all of the current features of NOS need to be
supported, a sripped down version would be fine.

There was a version of JNOS that was witten for the Kantronics Data Engine.

It was stripped down version that was intended for "hilltop" NOS support.

Something along those lines would be ideal.

The info is available on the Kantronics web page.

I am looking at NOS as a way to provide support and some services for the
TCP-IP group in Tulsa. For whatever it is worth, there will be no 1200 baud

radio ports on this box, only 9600 and one will feed into a digital rpt.

My install of TNOS still "complains" on start up. I too have some issues to
look at in the autoexec.nos file.

I guess I need to break down and get some Flash memory and an adapter card
headed my way.

Joe

From wa5vms@tapr.org Wed Jun 24 19:54:41 1998
Received: from Pjsboro.intellex.com ([206.214.204.179]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id TAA08748
for <texnetaxip@tapr.org>; Wed, 24 Jun 1998 19:54:38 -0500 (CDT)
Message-Id: <3.0.32.19980624203251.00b2a76c@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Wed, 24 Jun 1998 20:32:55 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Diskless Linux Box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Allen

Just some additional thoughts on the diskless Linux Box.

I just remembered the $15 dollar 20 meg IDE drive that I bought at Tanner's.

It is brand new and was designed for a laptop. I bought it just because it
was unusual.

This would be a good test platform for me to try setting up applications
for a diskless box without my having to purchase the FLASH RAM memory until
it was needed.

I could use this drive to set things up and then transfer the info over to
the flash memory at such point and time as things were optimized.

Let's see where we can go on this one.

Joe

From dallen@cei.net Thu Jun 25 12:42:08 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
MAA15625 for <texnetaxip@tapr.org>; Thu, 25 Jun 1998 12:42:07 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id MAA25902
for <texnetaxip@tapr.org>; Thu, 25 Jun 1998 12:42:03 -0500 (CDT)
Message-Id: <3.0.5.32.19980625124200.007b8560@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Thu, 25 Jun 1998 12:42:00 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:23] Diskless Linux Box
In-Reply-To: <3.0.32.19980624203251.00b2a76c@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sounds like an great idea!

Allen

At 07:57 PM 6/24/98 -0500, you wrote:
>Hi Allen
>
>Just some additional thoughts on the diskless Linux Box.
>
>I just remembered the $15 dollar 20 meg IDE drive that I bought at Tanner's.
>
>It is brand new and was designed for a laptop. I bought it just because it
>was unusual.
>
>This would be a good test platform for me to try setting up applications
>for a diskless box without my having to purchase the FLASH RAM memory until
>it was needed.

>
>I could use this drive to set things up and then transfer the info over to
>the flash memory at such point and time as things were optimized.
>
>Let's see where we can go on this one.
>
>Joe
>
>

From w9ddd@tapr.org Thu Jun 25 22:02:59 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id WAA21497; Thu, 25 Jun 1998 22:02:58 -0500
(CDT)
Date: Thu, 25 Jun 1998 22:02:57 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Diskless Linux Box
In-Reply-To: <3.0.32.19980624203251.00b2a76c@tapr.org>
Message-ID: <Pine.BSI.3.91.980625215738.21300A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, the sample CF connector arrived today. That .025 pitch stuff brings
new meaning to the phrase 'finer than frog's hair'! Have most of the
connection mapping figured out. Need to check one or two more things with
an ohm meter against what the functional description says about some of
the signals. Then route the board. Anyone know where to get a 4 pin power
connector like used on the 3.5" floppy drives? I could use the big one
that was standard for 20 years, but I'd like to use the smaller one if I
can find them available. You'd think I could find a junk 3.5" drive lying
around wouldn't you?

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

From wd5ivd@tapr.org Thu Jun 25 23:44:52 1998
Received: from [207.43.172.66] ([207.43.172.66]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id XAA28560 for
<texnetaxip@tapr.org>; Thu, 25 Jun 1998 23:44:50 -0500 (CDT)
Message-Id: <v04003a19b1b8d465e3fd@[207.43.172.66]>
In-Reply-To: <Pine.BSI.3.91.980625215738.21300A-100000@tapr.org>
References: <3.0.32.19980624203251.00b2a76c@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 25 Jun 1998 23:30:42 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:25] Diskless Linux Box

I think Mouser carry ones. Did you check their page ?

Greg

>Well, the sample CF connector arrived today. That .025 pitch stuff brings
>new meaning to the phrase 'finer than frog's hair'! Have most of the
>connection mapping figured out. Need to check one or two more things with
>an ohm meter against what the functional description says about some of
>the signals. Then route the board. Anyone know where to get a 4 pin power
>connector like used on the 3.5" floppy drives? I could use the big one
>that was standard for 20 years, but I'd like to use the smaller one if I
>can find them available. You'd think I could find a junk 3.5" drive lying
>around wouldn't you?
>
>John Koster, W9DDD
><w9ddd@tapr.org>
>
> ==========
> Character - doing what is right when no one is watching. J. C. Watts

-----
Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From wa5vms@tapr.org Fri Jun 26 06:13:45 1998
Received: from Pjsboro.intellex.com ([206.214.204.152]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA22764
for <texnetaxip@tapr.org>; Fri, 26 Jun 1998 06:13:43 -0500 (CDT)
Message-Id: <3.0.32.19980626065202.00b2b8d4@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Fri, 26 Jun 1998 06:52:06 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:25] Diskless Linux Box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

Have Drive, will pull the connector and send it your way.

Joe

At 10:10 PM 6/25/98 -0500, you wrote:
>Well, the sample CF connector arrived today. That .025 pitch stuff brings
>new meaning to the phrase 'finer than frog's hair'! Have most of the
>connection mapping figured out. Need to check one or two more things with
>an ohm meter against what the functional description says about some of
>the signals. Then route the board. Anyone know where to get a 4 pin power
>connector like used on the 3.5" floppy drives? I could use the big one
>that was standard for 20 years, but I'd like to use the smaller one if I
>can find them available. You'd think I could find a junk 3.5" drive lying
>around wouldn't you?
>
>John Koster, W9DDD
><w9ddd@tapr.org>
>
> ==
> Character - doing what is right when no one is watching. J. C. Watts
>
>
>

From wa5vms@tapr.org Fri Jun 26 12:00:14 1998
Received: from Pjsboro.intellex.com ([206.214.204.190]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id MAA18197
for <texnetaxip@tapr.org>; Fri, 26 Jun 1998 12:00:12 -0500 (CDT)
Message-Id: <3.0.32.19980626123832.00b2d5ac@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Fri, 26 Jun 1998 12:38:36 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:27] Re: Diskless Linux Box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

I just woke up so to speak.

I think Tom Clark used a 3.5" drive connector as a power connector on the
TAC2.

If so, I know where I can lay my hands on a few connectors.

Joe

From w9ddd@tapr.org Fri Jun 26 12:06:12 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id MAA18631; Fri, 26 Jun 1998 12:06:11 -0500
(CDT)
Date: Fri, 26 Jun 1998 12:06:10 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:28] Re: Diskless Linux Box
In-Reply-To: <3.0.32.19980626123832.00b2d5ac@tapr.org>
Message-ID: <Pine.BSI.3.91.980626120349.18183A-100000@tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Gee, I hadn't thought about that either. I've not paid that much
attention to a built up board when I had the opportunity to look at one.
If that is true, then I have a sample layout to look at as well, since I
have a bare board to look at. This will help.

John Koster, W9DDD
<w9ddd@tapr.org>

On Fri, 26 Jun 1998, Joe S. Borovetz wrote:

> Hi John
>
> I just woke up so to speak.
>
> I think Tom Clark used a 3.5" drive connector as a power connector on the
> TAC2.
>
> If so, I know where I can lay my hands on a few connectors.
>
> Joe
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>

From w9ddd@tapr.org Fri Jun 26 16:12:04 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id QAA02268; Fri, 26 Jun 1998 16:12:03 -0500
(CDT)
Date: Fri, 26 Jun 1998 16:12:02 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:28] Re: Diskless Linux Box
In-Reply-To: <3.0.32.19980626123832.00b2d5ac@tapr.org>
Message-ID: <Pine.BSI.3.91.980626161033.2242A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was looking at the pictures on the web site, and it looks like it is a
straight on connector rather than right angle. It's possible however
that the pin spacing is the same?

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

On Fri, 26 Jun 1998, Joe S. Borovetz wrote:

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> Joe
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>

From wa5vms@tapr.org Fri Jun 26 17:14:40 1998
Received: from Pjsboro.intellex.com ([206.214.204.155]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id RAA05336
for <texnetaxip@tapr.org>; Fri, 26 Jun 1998 17:14:38 -0500 (CDT)
Message-Id: <3.0.32.19980626175258.00b2accc@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Fri, 26 Jun 1998 17:53:02 -0500
To: texnetaxip@tapr.org

From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:30] Re: Diskless Linux Box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

It is a straight connector but the pin spacing is correct and it has the
"keying wall".

I will look in the inventory this weekend and see what else I can find.

Joe

At 04:23 PM 6/26/98 -0500, you wrote:
>I was looking at the pictures on the web site, and it looks like it is a
>straight on connector rather than right angle. It's possible however
>that the pin spacing is the same?
>
>John Koster, W9DDD
><w9ddd@tapr.org>
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>> Joe
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From w9ddd@tapr.org Sat Jun 27 09:25:53 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id JAA13482; Sat, 27 Jun 1998 09:25:52 -0500
(CDT)
Date: Sat, 27 Jun 1998 09:25:51 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:31] Re: Diskless Linux Box
In-Reply-To: <3.0.32.19980626175258.00b2accc@tapr.org>
Message-ID: <Pine.BSI.3.91.980627091659.12480C-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Looking at the board, one could assume it was just a 4 pin header for ?
If the hole pattern is the same (as it appears), then I've got the PCB
library part whipped with just a teak on the silk screen layer. If you
see anything that tells you the part number or MFG of the part pass that
along too, and I can research if I can find the rt angle part, or if it's
worth looking for.

Looking at the silkscreen on the TAC2, it appears that with the 'keying
wall' to the top, that pin 1 is to the left. (top board view) So I will
proceed with the silk screen tweaks. (after I put in 10-12 hours on my
job today)

Greg, I guess we buy just enough from Wofford to keep them interested in
us. They guy who dropped off the sample was going to fix me up with some
other literature.

John Koster, W9DDD
<w9ddd@tapr.org>

```
==========================================================================
Character - doing what is right when no one is watching. J. C. Watts

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> >> If so, I know where I can lay my hands on a few connectors.
> >>
> >> Joe
> >>
> >>
> >>
```

>other literature.

Not even sure if we purchased from them or not recently, but we should
still be on the books.

Are we still looking at surface mount on this for the parts ?

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w9ddd@tapr.org Sat Jun 27 12:21:14 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id MAA20238; Sat, 27 Jun 1998 12:21:13 -0500
(CDT)
Date: Sat, 27 Jun 1998 12:21:12 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:33] Re: Diskless Linux Box
In-Reply-To: <v04003a02b1bad53f1cc6@[207.43.172.66]>
Message-ID: <Pine.BSI.3.91.980627121744.19906A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Only the Compact Flash card socket (only comes in surface mount as far as
I've been able to find so far) will be surface mount, the IDE cable, Power
connector and configuration header will still be through hole. Reason to
stay with through hole on those is for durability. Think about the stress
when plugging on and pulling off connectors.

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

On Sat, 27 Jun 1998, Greg Jones, WD5IVD wrote:

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> -----
> Greg Jones, WD5IVD Austin, Texas
> wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>
>
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> 5. Anywhere outside a university. "Poor fellow, he's left UT
> Austin and gone into the real world."
>
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>

From w9ddd@tapr.org Sat Jun 27 16:45:09 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id QAA01347; Sat, 27 Jun 1998 16:45:08 -0500 (CDT)
Date: Sat, 27 Jun 1998 16:45:08 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Diskless Linux Box
In-Reply-To: <3.0.32.19980626065202.00b2b8d4@tapr.org>
Message-ID: <Pine.BSI.3.91.980627163953.1306A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Now to how we package this thing. Since you won't be able to hot swap
this thing anyhow. (True IDE mode != card services mode for PCMCIA slot)
I don't see a need to have a opening in the front panel of the 3.5" drive
bay, if we even package it for the 3.5" drive bay. Whatcha think?

BTW the last issue of Circuit Cellar arrived with an announcement of a
product for the PC104 bus similar to this for $59. It would have a 'IDE
controller' on board as well as the socket and other support.

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

From dallen@cei.net Sat Jun 27 17:04:23 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id RAA02431 for <texnetaxip@tapr.org>; Sat, 27 Jun 1998 17:04:22 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id RAA25964
for <texnetaxip@tapr.org>; Sat, 27 Jun 1998 17:04:20 -0500 (CDT)
Message-Id: <3.0.5.32.19980627170415.007b12c0@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Sat, 27 Jun 1998 17:04:15 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:35] Diskless Linux Box
In-Reply-To: <Pine.BSI.3.91.980627163953.1306A-100000@tapr.org>
References: <3.0.32.19980626065202.00b2b8d4@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

How about laying it out on a 8 bit 'XT' style card? You could steal your
+5v off the pc's bus, but otherwise no connections. It would mostly serve
as a physical support for the interface.

At 04:50 PM 6/27/98 -0500, you wrote:
>Now to how we package this thing. Since you won't be able to hot swap
>this thing anyhow. (True IDE mode != card services mode for PCMCIA slot)
>I don't see a need to have a opening in the front panel of the 3.5" drive
>bay, if we even package it for the 3.5" drive bay. Whatcha think?
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>BTW the last issue of Circuit Cellar arrived with an announcement of a
>product for the PC104 bus similar to this for $59. It would have a 'IDE
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><w9ddd@tapr.org>
>
> ==========
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>
>

From wd5ivd@tapr.org Sat Jun 27 17:38:45 1998
Received: from [207.43.172.66] ([207.43.172.66]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id RAA03672 for <texnetaxip@tapr.org>; Sat, 27 Jun 1998 17:38:43 -0500 (CDT)
Message-Id: <v04003a02b1bb1ba0b148@[207.43.172.66]>
In-Reply-To: <Pine.BSI.3.91.980627163953.1306A-100000@tapr.org>
References: <3.0.32.19980626065202.00b2b8d4@tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Date: Sat, 27 Jun 1998 16:59:07 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:35] Diskless Linux Box

>Now to how we package this thing. Since you won't be able to hot swap
>this thing anyhow. (True IDE mode != card services mode for PCMCIA slot)
>I don't see a need to have a opening in the front panel of the 3.5" drive
>bay, if we even package it for the 3.5" drive bay. Whatcha think?

I agree.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w9ddd@tapr.org Sat Jun 27 18:49:00 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id SAA10551; Sat, 27 Jun 1998 18:48:59 -0500
(CDT)
Date: Sat, 27 Jun 1998 18:48:58 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:36] Re: Diskless Linux Box
In-Reply-To: <3.0.5.32.19980627170415.007b12c0@cei.net>
Message-ID: <Pine.BSI.3.91.980627184258.8323A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The only down side to this idea is:

The board cost is almost completely a function of the area. Although I
could minimize the size as much as possible. Like one scanner interface
I have that is only 1.5 high and long enough for the connector and reach
the back cover/bracket.

I hear that Intel/MS is trying to kill off the ISA slot on motherboards.
Don't remember where I read it, but going to try and find it again. Not
a problem for a while for those of us that only work with hand-me-downs.

John Koster, W9DDD
<w9ddd@tapr.org>

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> >
> > ==========
> > Character - doing what is right when no one is watching. J. C. Watts
> >
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>
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From wd5ivd@tapr.org Sat Jun 27 22:08:02 1998
Received: from [207.43.172.66] ([207.43.172.66]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id WAA23411 for
<texnetaxip@tapr.org>; Sat, 27 Jun 1998 22:07:56 -0500 (CDT)
Message-Id: <v04003a03b1bb5a2f6604@[207.43.172.66]>
In-Reply-To: <3.0.5.32.19980627170415.007b12c0@cei.net>
References: <Pine.BSI.3.91.980627163953.1306A-100000@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 27 Jun 1998 21:26:55 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:36] Re: Diskless Linux Box

>How about laying it out on a 8 bit 'XT' style card? You could steal your
>+5v off the pc's bus, but otherwise no connections. It would mostly serve
>as a physical support for the interface.

The extra fingers cost a lot for something that doesn't need to be done
that way.

We probably need to check the prices again, but last time we looked it this
it adds up to $5 a board for the small qty we are running.

Greg

>
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Greg Jones, WD5IVD Austin, Texas
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Real World, The n.:
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From wa5vms@tapr.org Sun Jun 28 09:20:44 1998
Received: from Pjsboro.intellex.com ([206.214.204.165]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id JAA16193
for <texnetaxip@tapr.org>; Sun, 28 Jun 1998 09:20:40 -0500 (CDT)
Message-Id: <3.0.32.19980628095909.00aa17c8@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 28 Jun 1998 09:59:14 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:38] Re: Diskless Linux Box
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I agree with John about not using an ISA slot.

The surplus P60 motherboard that I am using has 4 ISA slots and the rest
are PCI.

Many of the boards only have 3 ISA slots.

>From my standpoint, that makes an ISA slot a precious commodity, something
I do not like to use unless necessary.

I save the ISA slots for things like serial ports where I DO NOT like to
use I/O that is built into the motherboard, especially when I connect a
radio to the port.

So far, the P-60 box at FTGIBSN has 4 serial ports and it may need another.

I could use one of the multiport serial cards to save slots but those cards
cost BIG money as compared to a dual port serial card.

Joe

At 06:53 PM 6/27/98 -0500, you wrote:
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>
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>could minimize the size as much as possible. Like one scanner interface
>I have that is only 1.5 high and long enough for the connector and reach
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From w9ddd@tapr.org Sun Jun 28 10:19:56 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id KAA24265; Sun, 28 Jun 1998 10:19:55 -0500
(CDT)
Date: Sun, 28 Jun 1998 10:19:54 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:40] Re: Diskless Linux Box
In-Reply-To: <3.0.32.19980628095909.00aa17c8@tapr.org>
Message-ID: <Pine.BSI.3.91.980628100347.22622B-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, I was not saying that the ISA slot card was out of the question, I
was just pointing out some of the pitfalls.

The older vintage of cases I have floating around, always seem to have more slot space than the motherboard by at least one. Is that still the case? If so, we could attach it to a blank that covers an opening that doesn't line up with an actual slot on the MB. I'll bet however that the new cases don't have the extra blank space. As a matter of fact I just looked at my newest case and it doesn't have a spare. Probably the safest in terms of always available is an internal 3.5" HD bay. I'm saying at least one should be available, since that's what we're replacing. One could have a secondary HD (haven't tested the CF as primary with a slave - it works as a slave, and as primary by itself, and shoudl work as a master as well, but not tested by me yet) also as swap or something, if it could be automatically configured out if it failed.

Greg did anything ever happen towards a drive bay adaptor for the TAC2? Or is this going to drive that? Could make this about 1/2 to 2/3 the size of TAC2. Then have tabs or standoff for each. Looking at the TAC2 it's not obvious what are supposed to be the mounting holes. Guess I need to build that board up and put a dead Garmin on it or something to see what its true form factor is.

The board layout seems to be trying to be larger than I was expecting. It's a bear getting all those closely spaced pins on the CF socket fanned out to where you can put vias in etc. You only have connections to one side of the board on that darn surface mount stuff.

John Koster, W9DDD
<w9ddd@tapr.org>

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>
> I save the ISA slots for things like serial ports where I DO NOT like to
> use I/O that is built into the motherboard, especially when I connect a
> radio to the port.
>
> So far, the P-60 box at FTGIBSN has 4 serial ports and it may need another.
>
> I could use one of the multiport serial cards to save slots but those cards
> cost BIG money as compared to a dual port serial card.
>
> Joe
>
>
> At 06:53 PM 6/27/98 -0500, you wrote:
> >The only down side to this idea is:
> >
> >The board cost is almost completely a function of the area. Although I
> >could minimize the size as much as possible. Like one scanner interface
> >I have that is only 1.5 high and long enough for the connector and reach
> >the back cover/bracket.
> >
> >I hear that Intel/MS is trying to kill off the ISA slot on motherboards.
> >Don't remember where I read it, but going to try and find it again. Not
> >a problem for a while for those of us that only work with hand-me-downs.
> >
> >
> >John Koster, W9DDD
> ><w9ddd@tapr.org>
> >
> > ==========
> > Character - doing what is right when no one is watching. J. C. Watts
> >
> >On Sat, 27 Jun 1998, Allen Finne wrote:
> >

> >> How about laying it out on a 8 bit 'XT' style card? You could steal your
> >> +5v off the pc's bus, but otherwise no connections. It would mostly serve
> >> as a physical support for the interface.
> >>
> >>
> >> At 04:50 PM 6/27/98 -0500, you wrote:
> >> >Now to how we package this thing. Since you won't be able to hot swap
> >> >this thing anyhow. (True IDE mode != card services mode for PCMCIA slot)
> >> >I don't see a need to have a opening in the front panel of the 3.5" drive
> >> >bay, if we even package it for the 3.5" drive bay. Whatcha think?
> >> >
> >> >BTW the last issue of Circuit Cellar arrived with an announcement of a
> >> >product for the PC104 bus similar to this for $59. It would have a 'IDE
> >> >controller' on board as well as the socket and other support.
> >> >
> >> >John Koster, W9DDD
> >> ><w9ddd@tapr.org>
> >> >
> >> > ==
> >> > Character - doing what is right when no one is watching. J. C. Watts
> >> >
> >> >
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> >>
> > >
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> > >
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>

From wd5ivd@tapr.org Sun Jun 28 16:17:22 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id QAA17781 for <texnetaxip@tapr.org>; Sun, 28 Jun 1998 16:17:21 -0500 (CDT)
Message-Id: <v04003a01b1bc615145d4@[207.43.172.66]>
In-Reply-To: <Pine.BSI.3.91.980628100347.22622B-100000@tapr.org>
References: <3.0.32.19980628095909.00aa17c8@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 28 Jun 1998 16:11:40 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:41] Re: Diskless Linux Box

>Greg did anything ever happen towards a drive bay adaptor for the TAC2?

Yes and No.

I have the adpater here. Never did get the plastic piece from the mfg that
we wanted, but never really followed up on either after the first few
times. I could get Mel back into it and we could get those plastic plate
without much problem.

I think the adapter cost list $12 and figured the plastic was going to cost
.35 each.

>Or is this going to drive that? Could make this about 1/2 to 2/3 the
>size of TAC2. Then have tabs or standoff for each. Looking at the TAC2
>it's not obvious what are supposed to be the mounting holes. Guess I need
>to build that board up and put a dead Garmin on it or something to see
>what its true form factor is.

The plan on the TAC-2 was to mount it directly to the plastic card that
attached to the wings of the drive bay adapter. In the case of the
Flashcard, I think we do the same thing. We just drill holes for your
card so that mounts onto the plastic.

Greg

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From wa5vms@tapr.org Thu Jul 02 19:52:42 1998
Received: from Pjsboro.intellex.com ([206.214.204.191]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id TAA19256
for <texnetaxip@tapr.org>; Thu, 2 Jul 1998 19:52:37 -0500 (CDT)
Message-Id: <3.0.32.19980702203123.00aa60e0@tapr.org>
X-Sender: wa5vms@tapr.org (Unverified)
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Thu, 02 Jul 1998 20:31:30 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Wormhole
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Thu, 02 Jul 1998 20:28:18 -0500
>To: hognet@babo.uark.edu
>From: "Joe S. Borovetz" <wa5vms@tapr.org>
>Subject: Wormhole
>
>Hello All
>
>I am pleased to announce that I have been able to work an agreement with a
local ISP that will allow a wormhole to close the gap between this part of
the network and the rest of the network in Texas.
>
>Part of this agreement hinges on the fact that I will be using SS wireless
radios to get the link out of the ISP.
>
>I will still have to pay for service but I will receive a greatly reduced
rate for 24 hour per day service, something like $29 per month and this
will include my personal Internet access. This rate is based on the fact
that I am not using a phone line or one of their modems.
>
>The ISP is also interested in getting on the wireless bandwagon and plans
to buy some radios and sell high speed T1 service to commercial customers.
>A local T1 line is $500 per month. The ISP figures a customer can recover
their investment in wireless modems in less that a year by the savings on
the phone line charges.
>
>The building owner is agreeable to outside antennas so that is no problem.
>
>I had been negotiating with another ISP but while they seemed interested,
I never could get a yes or no answer. Too many politics with the owners.
>
>This ISP as much as said yes the first day and we settled some things on
Tuesday.
>
>As a point of interest, this provider came out of the frustration of four
different families with the quality of ISP's here in Muskogee. They were
having problems and getting the old run around when thay called.
>
>All of these people are in private businesses and they decided to band
together and open an ISP that was progressive and wants to do things right.
>
>From what I see, they should be a success in the business. They are
progressive and are out to find new and better ways to serve their customer
base.
>
>Now for the real reason for this msg.
>
>I WILL need HELP to pull this off.
>
>There is a 70 foot tower at Bob's house at FTGIBSN that will have to be
taken down and then put up at the ISP's site.
>
>I will need help to make this tower move.
>
>The tentative plan is for the ISP to buy Bob's tower and I will provide
the installation.
>
>This is the best chance that we have to put Texnet back together.

>
>By the time everything is completed, I will have close to $3000 of out of
pocket expenses in this project. Most of this will be in wireless modems
and antennas.
>
>Any one out there willing to donate some labor?????
>
>Joe

From wa5vms@tapr.org Sat Jul 04 20:03:51 1998
Received: from Pjsboro.intellex.com ([206.214.204.192]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id UAA14055;
Sat, 4 Jul 1998 20:03:49 -0500 (CDT)
Message-Id: <3.0.32.19980704204247.00b33908@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 04 Jul 1998 20:42:52 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: NOS
Cc: mxfoster@concentric.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have been fighting NOS for the last couple of days.

I managed to get an autoexec.nos file that looks OK and the computer seems
to like the settings.

I am having problems with the TNC interface. The thing works, just barely.

I seem to have lots of retries as though my RX packets were not being
received correctly.

The TNC seems to be fine and I have checked its operation in the KISS mode
by using the modified Poor Man's Packet program that is supplied for
testing the Motorla EVM.

I even tried another TNC with no luck.

I broke down and threw a DOS version of NOS on the DOS partition of this
Linux box.

Threw is the right word. I cobbled it up enough to make it run and that is
about all.

When I do an AX25 connect from the console of the NOS under DOS version,
things work much better.

Like I said, the program is crippled because I have not gone to the trouble
to do the correct install and it still works better than the Linux version.

Anyone have thoughts on the subject. I am beginning to wonder if something
is not right with my serial ports under Linux.

Joe

From jcm7181@usl.edu Sat Jul 04 23:14:57 1998
Received: from a89.ucs.usl.edu (jcm7181@a89.ucs.usl.edu [130.70.108.4]) by tapr.org (8.7.5/8.7.3/1.9) with
SMTP id XAA23078 for <texnetaxip@tapr.org>; Sat, 4 Jul 1998 23:14:55 -0500 (CDT)
Received: (jcm7181@localhost) by a89.ucs.usl.edu id AA01767
(5.65c/IDA-1.4.4 for texnetaxip@tapr.org); Sat, 4 Jul 1998 23:14:53 -0500
Date: Sat, 4 Jul 1998 23:14:53 -0500
From: Moore James C <jcm7181@usl.edu>
Message-Id: <199807050414.AA01767@a89.ucs.usl.edu>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:44] NOS

Joe are you using a 16550A uart? They workmuch better with teh linux
varities of nos, also what version and is it jnos otr tnos?

Jim wu3v/s

From wa5vms@tapr.org Sun Jul 05 07:25:55 1998
Received: from Pjsboro.intellex.com ([206.214.204.175]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id HAA28667
for <texnetaxip@tapr.org>; Sun, 5 Jul 1998 07:25:53 -0500 (CDT)
Message-Id: <3.0.32.19980705080455.00b34c08@tapr.org>
X-Sender: wa5vms@tapr.org

X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 05 Jul 1998 08:04:58 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:45] Re: NOS
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jim

It is TNOS v 2.30 running on Slackware 2.0.29.

The UART's are on an I/O card that is supposed to have 16550's.

The DOS pgm MSD and Linux show them as being 550's.

I think that I need to re-group and verify that the serial port is working
OK under Linux.

I have a Linux packet program that uses a KISS driver. I think I will
install that pgm and check out the serial ports.

I also need to check out the AX25 support within the Linux kernel.

That way, I can decide where to start looking.

If all of the above run fine, then I have a problem with TNOS.

If not, I have another serial card that I know has 16550's as UART's. I can
swap that in and see what happens.

Another thought crossed my mind.

I grabbed the TNOS executable file off of the lantz.com web site and used
that file instead of taking the time to compile my own copy.

That may be part of my problems.

If you think JNOS might be easier to work with, then I would be willing to
switch.

Joe

At 11:20 PM 7/4/98 -0500, you wrote:
>Joe are you using a 16550A uart? They workmuch better with teh linux
>varities of nos, also what version and is it jnos otr tnos?
>
>Jim wu3v/s
>
>
>

From wd5ivd@tapr.org Sun Jul 05 09:08:37 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id JAA03091 for <texnetaxip@tapr.org>; Sun, 5 Jul 1998 09:08:34 -0500 (CDT)
Message-Id: <v04003a04b1c538a90aff@[207.8.125.50]>
In-Reply-To: <3.0.32.19980705080455.00b34c08@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 5 Jul 1998 09:06:25 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:46] Re: NOS

Joe -- they have to be the 16550A if you want the Freewaves to work at
anything above 38.4.

We had a lot of problems with serial cards when I first started messing
them last year. One reason to not use serial interfaces for highspeed
applications.

Greg

>Jim
>
>It is TNOS v 2.30 running on Slackware 2.0.29.
>

>The UART's are on an I/O card that is supposed to have 16550's.
>
>The DOS pgm MSD and Linux show them as being 550's.
>
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>
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>install that pgm and check out the serial ports.
>
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>
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>
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>
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>that file instead of taking the time to compile my own copy.
>
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>
>
>
>
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>>varities of nos, also what version and is it jnos otr tnos?
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>>Jim wu3v/s
>>
>>
>>

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w9ddd@tapr.org Sun Jul 05 10:14:08 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id KAA09295; Sun, 5 Jul 1998 10:14:07 -0500
(CDT)
Date: Sun, 5 Jul 1998 10:14:06 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Power connector pin connections - 3.5" floppy
In-Reply-To: <v04003a04b1c538a90aff@[207.8.125.50]>
Message-ID: <Pine.BSI.3.91.980705100956.8548C-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just as a reality check let's see if I have this figured out correctly.

The old larger power connectors for hard drives and 5.25" floppies used
pin 4 for the +5, and the smaller connector for the 3.5" floppies use pin
1 for +5. Does that check out with anyone's past experience, or have you
been like me up to now.....plug it in and go.

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

From w9ddd@tapr.org Sun Jul 05 11:28:41 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id LAA14275; Sun, 5 Jul 1998 11:28:40 -0500 (CDT)
Date: Sun, 5 Jul 1998 11:28:39 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:48] Power connector pin connections - 3.5" floppy
In-Reply-To: <Pine.BSI.3.91.980705100956.8548C-100000@tapr.org>
Message-ID: <Pine.BSI.3.91.980705112704.14180B-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

After I double check all the connections one more time, including the
power connector, this is ready to go to the board house.

On Sun, 5 Jul 1998, John Koster wrote:

>
> Just as a reality check let's see if I have this figured out correctly.
>
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> pin 4 for the +5, and the smaller connector for the 3.5" floppies use pin
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>
> John Koster, W9DDD
> <w9ddd@tapr.org>
>
> ==
> Character - doing what is right when no one is watching. J. C. Watts
>
>

From wa5vms@tapr.org Sun Jul 05 12:37:17 1998
Received: from Pjsboro.intellex.com ([206.214.204.179]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id MAA18286 for <texnetaxip@tapr.org>; Sun, 5 Jul 1998 12:37:15 -0500 (CDT)
Message-Id: <3.0.32.19980705131617.00b36150@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 05 Jul 1998 13:16:21 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:47] Re: NOS
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greg

I remembered the Freewave problem.

I have a good card with Startek 16C5550's seta aside for that interface.

The local computer store got in a shipment of nice 16C550 serial cards and
I bought about 3 of them since they were rated for high speed use.

Joe

At 09:09 AM 7/5/98 -0500, you wrote:
>Joe -- they have to be the 16550A if you want the Freewaves to work at
>anything above 38.4.
>
>We had a lot of problems with serial cards when I first started messing
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>
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>>
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>>
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>wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>
>
>Real World, The n.:
> 5. Anywhere outside a university. "Poor fellow, he's left UT
>Austin and gone into the real world."
>
>
>
>

From wd5ivd@tapr.org Sun Jul 05 17:32:44 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id RAA04704 for <texnetaxip@tapr.org>; Sun, 5 Jul 1998 17:32:43 -0500 (CDT)
Message-Id: <v04003a06b1c5aa14390a@[207.8.125.50]>
In-Reply-To: <Pine.BSI.3.91.980705112704.14180B-100000@tapr.org>
References: <Pine.BSI.3.91.980705100956.8548C-100000@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 5 Jul 1998 17:11:50 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:49] Re: Power connector pin connections - 3.5"
floppy

Great!

How many boards you planning on doing ? 10 ?

I think we should populate at least 5. How many on the list here are
wanting to pay the cost for the parts to beta test ?

I know a few of the directors will want to test as well. I'll post a note
over there.

Greg

>After I double check all the connections one more time, including the
>power connector, this is ready to go to the board house.
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>
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>> John Koster, W9DDD
>> <w9ddd@tapr.org>
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>> Character - doing what is right when no one is watching. J. C. Watts
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Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
5. Anywhere outside a university. "Poor fellow, he's left UT
Austin and gone into the real world."

From w9ddd@tapr.org Sun Jul 05 17:41:13 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id RAA05531; Sun, 5 Jul 1998 17:41:12 -0500
(CDT)
Date: Sun, 5 Jul 1998 17:41:11 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:51] Re: Power connector pin connections - 3.5"
In-Reply-To: <v04003a06b1c5aa14390a@[207.8.125.50]>
Message-ID: <Pine.BSI.3.91.980705173809.5115A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'd probably get more than that from a min run. We need to find someone
to solder the surface mount connector. Probably the person who has been
doing the stuff for Bob. I doubt anyone wants to try it themselves on
the first go around anyhow.

John Koster, W9DDD
<w9ddd@tapr.org>

==
Character - doing what is right when no one is watching. J. C. Watts

On Sun, 5 Jul 1998, Greg Jones, WD5IVD wrote:

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>
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> 5. Anywhere outside a university. "Poor fellow, he's left UT
> Austin and gone into the real world."
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>
>

From jcm7181@usl.edu Sun Jul 05 23:16:30 1998
Received: from a89.ucs.usl.edu (jcm7181@a89.ucs.usl.edu [130.70.108.4]) by tapr.org (8.7.5/8.7.3/1.9) with
SMTP id XAA01873 for <texnetaxip@tapr.org>; Sun, 5 Jul 1998 23:16:28 -0500 (CDT)
Received: (jcm7181@localhost) by a89.ucs.usl.edu id AA02700
(5.65c/IDA-1.4.4 for texnetaxip@tapr.org); Sun, 5 Jul 1998 23:16:26 -0500
Date: Sun, 5 Jul 1998 23:16:26 -0500
From: Moore James C <jcm7181@usl.edu>
Message-Id: <199807060416.AA02700@a89.ucs.usl.edu>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:46] Re: NOS

Joe a few things N5KNX is the software maintainer for jnos, if we find some incaompatabilities
I may be able to get him to correct them , also some of those io cards that say
they are 16550 compatable are not in actuality. Try a card with the actual
parts and see if it makes a difference. I had a sysop finally do that and his
system went from 20% retries to nonoe!
Also 73 and hacve a good weekend
wu3v/5

From wa5vms@tapr.org Mon Jul 06 06:23:44 1998
Received: from Pjsboro.intellex.com ([206.214.204.169]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA28066
for <texnetaxip@tapr.org>; Mon, 6 Jul 1998 06:23:42 -0500 (CDT)
Message-Id: <3.0.32.19980706070248.00b37df8@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 06 Jul 1998 07:02:52 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:53] Re: NOS
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks Jim

I will try a different card this evening.

Like I told Greg, I have some nice cards that are rated to 115K. These
cards have Startek chips so I know they will be rated for the speed.

Joe

At 11:17 PM 7/5/98 -0500, you wrote:
>Joe a few things N5KNX is the software maintainer for jnos, if we find
some incaompatabilities
>I may be able to get him to correct them , also some of those io cards
that say
>they are 16550 compatable are not in actuality. Try a card with the actual
>parts and see if it makes a difference. I had a sysop finally do that and his
>system went from 20% retries to nonoe!
>Also 73 and hacve a good weekend
>wu3v/5
>
>

>

From wa5vms@tapr.org Mon Jul 06 17:17:14 1998
Received: from Pjsboro.intellex.com ([206.214.204.188]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id RAA18743
for <texnetaxip@tapr.org>; Mon, 6 Jul 1998 17:17:12 -0500 (CDT)
Message-Id: <3.0.32.19980706175617.006856d4@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 06 Jul 1998 17:56:22 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Board
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

Put me on the list for a board.

I am also willing to tackle trying to install the SMD socket.

Thanks to the Bat Wing boys, I have to do a bit of SMD stuff when I repair
the new style portable radios.

Joe

From wa5vms@tapr.org Mon Jul 06 19:59:12 1998
Received: from Pjsboro.intellex.com ([206.214.204.178]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id TAA06451
for <texnetaxip@tapr.org>; Mon, 6 Jul 1998 19:59:09 -0500 (CDT)
Message-Id: <3.0.32.19980706203817.00b36074@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 06 Jul 1998 20:38:21 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: NOS....DUH
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

Just a report on NOS.

Greg and Jim were right. I tried a new serial card tonight and it works fine.

I should have known to check the serial card after all of the problems that
Greg had with serial ports and the Freewave radios.

The more I thought about my serial card which was an I/O card that I was
also using as the IDE CDROM port, the more I became suspicious of the card.

The card was put out by DTC and I don't think those folks can manage to do
anything right. Every card that they make has some kind of a gotcha.

I never had problems with this card under DOS but Linux.....?

On my COM3 which was set up for a high speed serial link, I did use a board
with a Startek chip but like I said, I made the mistake of believing that
the DTC card had "good" 16550's.

The card I replaced it with is from Lava computers. This company is known
for their quality high speed serial cards.

They have a web page at www.lavalink.com

Lots of nice products.

The Lava card works great. Now to optimize my autoexec.nos.

Joe

From w9ddd@tapr.org Sat Jul 11 23:35:49 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id XAA18567; Sat, 11 Jul 1998 23:35:48 -0500
(CDT)
Date: Sat, 11 Jul 1998 23:35:47 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org

Subject: Web page
In-Reply-To: <3.0.32.19980706203817.00b36074@tapr.org>
Message-ID: <Pine.BSI.3.91.980711233117.18207B-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'll be putting up a web page that will have some background information
on the 'router project' that Allen and I have been working on. The URL
will be (well, already is if you get off on LEGO building blocks):

http://www.tapr.org/~w9ddd/cfa

Up to now, the page is slanted more towards the hardware side, until I
get some more input from Allen.

At this point we're trying to come up with a name for the project.
Suggestions anyone?

John Koster, W9DDD
<w9ddd@tapr.org>

==========
Character - doing what is right when no one is watching. J. C. Watts

From wa5vms@tapr.org Sun Jul 12 07:34:18 1998
Received: from Pjsboro.intellex.com ([206.214.204.173]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id HAA19425
for <texnetaxip@tapr.org>; Sun, 12 Jul 1998 07:34:15 -0500 (CDT)
Message-Id: <3.0.32.19980712081348.00b3a8fc@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 12 Jul 1998 08:13:54 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Linux and Update
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

Just an update on the progress so far.

Before the progress report, I have a question for the real Linux experts.

I discovered that a couple of floppies that I had been using to pass stuff
between one of my Linux machines and another PC were infected with the
NATAS "SATAN" boot sector virus.

Not sure where I picked this one up at but so far, I have not found it
lurking on any of my PC's.

I have seen the damage that this virus can cause under MSDOS but I do not
know what damage it could do to Linux or if it could mess with Linux.

I still have one machine to check and it is the machine that I have been
building for installation at FTGIBSN.

This machine is up and running but I have noticed that it is a bit flakey.
I am in the process of trying to decide if I have a heat problem with the
CPU or something else like a marginal hard disk or bad memory.

The hard disk will be replaced with a flash card after things are set up
the way I want them.

I also need to determine if TNOS figure into part of this problem. I really
do not think so but I will see.

I visited with the ISP on Friday and I have the go ahead for the connection.

Now to finish rounding up all of the various pieces.

Down East Microwave will be shipping my home station antenna in a couple of
weeks. I have the antenna for the ISP end.

Now for the 2 GHz lightning arrestors and the hardline. All of that should
be in next week.

I guess the plan will be to start installation in late July and I hope to
have things up and running by Mid August.

After that conenction is up and running, then to set up the connection to
the FTGIBSN site.

With any luck, I may have all of this up and running in time for the DCC.

Joe

From wd5ivd@tapr.org Sun Jul 12 08:17:29 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9)
with ESMTP id IAA20782 for <texnetaxip@tapr.org>; Sun, 12 Jul 1998 08:17:28 -0500 (CDT)
Message-Id: <v04003a0db1ce632b1244@[207.8.125.50]>
In-Reply-To: <Pine.BSI.3.91.980711233117.18207B-100000@tapr.org>
References: <3.0.32.19980706203817.00b36074@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 12 Jul 1998 07:58:00 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:57] Web page

John, for some reason if you don't put the exact file name of flashy.html
after cfa you get the main index.html file which hasn't really bee changed.

Did you generate links ?

Greg

>I'll be putting up a web page that will have some background information
>on the 'router project' that Allen and I have been working on. The URL
>will be (well, already is if you get off on LEGO building blocks):
>
>http://www.tapr.org/~w9ddd/cfa
>
>Up to now, the page is slanted more towards the hardware side, until I
>get some more input from Allen.
>
>At this point we're trying to come up with a name for the project.
>Suggestions anyone?
>
>John Koster, W9DDD
><w9ddd@tapr.org>
>
> ==
> Character - doing what is right when no one is watching. J. C. Watts

-----
Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

From w9ddd@tapr.org Sun Jul 12 09:00:20 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id JAA22353; Sun, 12 Jul 1998 09:00:19 -0500
(CDT)
Date: Sun, 12 Jul 1998 09:00:19 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:59] Re: Web page
In-Reply-To: <v04003a0db1ce632b1244@[207.8.125.50]>
Message-ID: <Pine.BSI.3.91.980712085842.22092B-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The file flashy.html will be renamed index.html when its ready. Now you've
let the cat out of the bag.

John Koster, W9DDD
<w9ddd@tapr.org>

==
Character - doing what is right when no one is watching. J. C. Watts

On Sun, 12 Jul 1998, Greg Jones, WD5IVD wrote:

> John, for some reason if you don't put the exact file name of flashy.html
> after cfa you get the main index.html file which hasn't really bee changed.
>
> Did you generate links ?
>
> Greg

>
> >I'll be putting up a web page that will have some background information
> >on the 'router project' that Allen and I have been working on. The URL
> >will be (well, already is if you get off on LEGO building blocks):
> >
> >http://www.tapr.org/~w9ddd/cfa
> >
> >Up to now, the page is slanted more towards the hardware side, until I
> >get some more input from Allen.
> >
> >At this point we're trying to come up with a name for the project.
> >Suggestions anyone?
> >
> >John Koster, W9DDD
> ><w9ddd@tapr.org>
> >
> > ==========
> > Character - doing what is right when no one is watching. J. C. Watts
>
>
> -----
> Greg Jones, WD5IVD Austin, Texas
> wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>
>
>
>
>

From w9ddd@tapr.org Mon Jul 13 22:16:17 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id WAA12627; Mon, 13 Jul 1998 22:16:14 -0500 (CDT)
Date: Mon, 13 Jul 1998 22:16:11 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org, TAPR Board List <tapr-board@tapr.org>, tuc52@tapr.org
Subject: Any ideas
Message-ID: <Pine.BSI.3.91.980713221008.12108A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Check your junk boxes guys and see if you have something gathering dust.

I'm looking for a used mother board 386 or newer that has the VGA, serial
I/O, and IDE built in. Want to be able to build a demo 'router' that
doesn't have to have any ISA cards sticking up. I'd like package it
between a couple of pieces of lexan or plexiglas spaced just far enough
apart to clear the memory simms (unless the board is old enough to use
DIPs for memory). Idea is to show a PC without any moving parts and have
it be obvious that there is no floppy or HD hidden away.

I've been doing some checking locally, but haven't come up with anything
yet. Actually there are a couple of used systems in the $200 price range,
but one of them is a Compaq and the other an AT&T. Neither of them are
well known for being plain vanilla PC compatible.

John Koster, W9DDD
<w9ddd@tapr.org>

From wa5vms@tapr.org Sat Jul 18 12:20:43 1998
Received: from Pjsboro.intellex.com ([206.214.204.171]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id MAA19395 for <texnetaxip@tapr.org>; Sat, 18 Jul 1998 12:20:41 -0500 (CDT)
Message-Id: <3.0.32.19980718130042.006f3f40@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 18 Jul 1998 13:00:47 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: It is Official
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

It is official. All the clearances have been obtained and the ISP is ready
to go.

I plan to drive to Bartlesville week after next and pick up the tower that
was donated by KD5QD.

This is a 50 foot self supporting tower so that will eliminate the need for
guy wires.

Work should start on the tower installation in the next few weeks.

Joe

From wa5vms@tapr.org Sat Jul 18 22:22:11 1998
Received: from Pjsboro.intellex.com ([206.214.204.162]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id WAA19811
for <texnetaxip@tapr.org>; Sat, 18 Jul 1998 22:22:09 -0500 (CDT)
Message-Id: <3.0.32.19980718230215.00b3f41c@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 18 Jul 1998 23:02:17 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Update
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I spent what free time I had today working with a couple of the Freewave
radios that Greg sent to me for testing.

These radios are being used to test the feasibility of running a SS
connection from my home station out to the FTGIBSN Texnet node site.

The path from my house to the FTGIBSN node is about 11 air miles and it
should be a good path but I would like to test things before I run out and
spend good money on radios that might not work. I am looking at the
Freewave radio or a similar product from another manufacturer. These two
radios are rated to handle connections over path lengths similar to the one
that I will be using.

At the present, I have a 115K SLIP connection up and running between the
486-80 Linux machine that is in my ham shack and a Pentium 60 machine that
is on the bench in my shop. The P-60 machine is the one that will end up
out at FTGIBSN.
Granted the path between radios is only about 65 feet but that is a good
starting point.

When I ping the FTGIBSN computer, I do have a few garbaged packets. I need
to double check the flow control on both computers and also take a look at
the serial port speed. I have also tried a telnet session and that works
fine too.

I have the serial port speed on both linux boxes set at 115.2 K (spd_vhi).
The serial boards in both machine have the "good" 16550's.

From wa5vms@tapr.org Sat Jul 18 22:50:04 1998
Received: from Pjsboro.intellex.com ([206.214.204.162]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id WAA20888
for <texnetaxip@tapr.org>; Sat, 18 Jul 1998 22:50:01 -0500 (CDT)
Message-Id: <3.0.32.19980718233007.006856d4@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 18 Jul 1998 23:30:10 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Update Continued
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I have the serial port speed on both linux boxes set at 115.2 K (spd_vhi).
The serial boards in both machine have the "good" 16550's.

Sorry about that, I accidently hit "send" before I was finished.

Like I said earlier, I need to be sure that flow control is set up and
operating correctly.

The P-60 machine has a minor problem, I think TNOS is the culprit, but
something is gobbling up the available memory and when the machine runs out
of free memory, it locks up. It takes about 48 hours for this to happen so
I am still working on this one. I do have a few ideas though.

There are some routing issues with TNOS on the P-60 that need to be
"fixed". I hope to get that done this next week.

On the 486-80 machine in my hamshack, I have added a second ethernet port
that will handle the connection from the ISP. This port is configured and
seems to be running but I still need to be sure the routing is OK.

I set up a rc file in the /etc/rc.d directory to handle the configuration
of this port. The file name is rc.eth1 and it is called from rc.local. I
also set up a similar file to handle the SLIP connection. This makes it
easy for me to sort things out without having to deal with a large rc.local
file.

I guess the next step is antennas.

There is a 900 MHz loop yagi on my tower and that will be aimed toward
FTGIBSN when I climb to install the 2.4 GHz yagi. Looks like the tower work
at the house will be done in about another week. I plan to take a week of
vacation starting the 27 th and that will be a good time to get tower work
done early in the day before it gets too hot. Also hope to start some of
the work at the ISP site.

If the world does not fall apart, I am shooting for setting up an antenna
work at the ISP site on the second Saturday in August. This has to be
coordinated around the important things like the Computer show in Tulsa.
Quite a few of my volunteer helpers for the antenna party attend this show
every time it is held.

Guess that covers things for the present. As soon as the feed is in from
the ISP, I can get down to some serious business. BTW, this could not
happen at a better time.

There is a big road project taking place close to my house. Ma Bell had to
relocate a bunch of cables. In the process, the speed on my dialup line has
dropped drastically. Called the phone company and they gave the usual song
and dance about no guarantees for modem speed. Too bad, I will not need
this line in about 30 days. Bye Ma Bell.

Joe

From n5lyt@tapr.org Wed Jul 22 10:09:37 1998
Received: from belknap.fibrcom.com (belknap.fibrcom.com [207.71.10.13]) by tapr.org (8.7.5/8.7.3/1.9) with
SMTP id KAA26890 for <texnetaxip@tapr.org>; Wed, 22 Jul 1998 10:09:36 -0500 (CDT)
Date: Wed, 22 Jul 1998 10:09:36 -0500 (Central Daylight Time)
From: Lee Ziegenhals <n5lyt@tapr.org>
To: texnetaxip@tapr.org
Subject: Offers to the cause
Message-ID: <Pine.WNT.3.96.980722095818.-3390247B-100000@belknap.fibrcom.com>
X-X-Sender: n5lyt@tapr.org
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I haven't been following the TEXNETAXIP closely, as ham radio isn't very
high on my priority list these days. :-(

However, I do have some offers to make if it will help the cause. I still
have some PC equipment (mostly 386), a tri-band (144, 220, 440) antenna,
and various packet equipment, radios, and cans that may be of use. All of
this equipment was donated to the packet cause in San Antonio when I still
had the AX.25/Internet gateway set up here. I have been at a loss to
figure out what to do with all this gear, since it really doesn't belong
to any one person or group. If y'all are interested, I'll compile a
detailed list.

I'd prefer for the stuff to stay in San Antonio and be put to use here,
since it was all bought with donations from San Antonio hams. I do NOT
have time to maintain a packet gateway here again, but I'd be more than
happy to help set things up if I can be of use. I would also be willing
to provide an Internet connection, depending on location and speed needed.

Lee

From harryr@express-news.net Wed Jul 22 10:23:38 1998
Received: from tha.express-news.net (www.fire-arms.com [204.57.69.238]) by tapr.org (8.7.5/8.7.3/1.9) with
ESMTP id KAA27288 for <texnetaxip@tapr.org>; Wed, 22 Jul 1998 10:23:37 -0500 (CDT)
Received: from express-news.net (asc6176.express-news.net [204.57.69.176])
by tha.express-news.net (8.8.5/8.8.5) with ESMTP id KAA13955
for <texnetaxip@tapr.org>; Wed, 22 Jul 1998 10:23:33 -0500 (CDT)

Message-ID: <35B60284.E00E7AE4@express-news.net>
Date: Wed, 22 Jul 1998 10:17:24 -0500
From: Harry Ridenour <harryr@express-news.net>
X-Mailer: Mozilla 4.02 [en] (Win95; U)
MIME-Version: 1.0
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:65] Offers to the cause
References: <Pine.WNT.3.96.980722095818.-3390247B-100000@belknap.fibrcom.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Lee,
Thanks for the generous offer. Much of that equipment can be utilized as the
AXIP project
moves further along with the need for a Internet access. For sure the antenna
and computer
will be needed.....will probably be installed right over the wall from your
place on
Broadway (SNS site).
Need to talk to you about the cavities....altho there is not a projected need
for them on
the AXIP project...there is a need for them in SanAntonio on the AX25 net.
With all your spare time, cant understand why you dont want to operate a
gateway......
har har har!!!!!!!!!!!!!!!
Will be outta touch till Mid-August...Getting dahellouttadis heat!!! Going to
Montana!!

73 Harry N0CCW

Lee Ziegenhals wrote:

> I haven't been following the TEXNETAXIP closely, as ham radio isn't very
> high on my priority list these days. :-(
>
> However, I do have some offers to make if it will help the cause. I still
> have some PC equipment (mostly 386), a tri-band (144, 220, 440) antenna,
> and various packet equipment, radios, and cans that may be of use. All of
> this equipment was donated to the packet cause in San Antonio when I still
> had the AX.25/Internet gateway set up here. I have been at a loss to
> figure out what to do with all this gear, since it really doesn't belong
> to any one person or group. If y'all are interested, I'll compile a
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> I'd prefer for the stuff to stay in San Antonio and be put to use here,
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> have time to maintain a packet gateway here again, but I'd be more than
> happy to help set things up if I can be of use. I would also be willing
> to provide an Internet connection, depending on location and speed needed.
>
> Lee

From n5lyt@tapr.org Wed Jul 22 10:52:41 1998
Received: from belknap.fibrcom.com (belknap.fibrcom.com [207.71.10.13]) by tapr.org (8.7.5/8.7.3/1.9) with
SMTP id KAA28556 for <texnetaxip@tapr.org>; Wed, 22 Jul 1998 10:52:39 -0500 (CDT)
Date: Wed, 22 Jul 1998 10:52:39 -0500 (Central Daylight Time)
From: Lee Ziegenhals <n5lyt@tapr.org>
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:66] Re: Offers to the cause
In-Reply-To: <35B60284.E00E7AE4@express-news.net>
Message-ID: <Pine.WNT.3.96.980722104412.-3390247C-100000@belknap.fibrcom.com>
X-X-Sender: n5lyt@tapr.org
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sounds good, Harry. Give me a call at your convenience, either at home or
at work, and we'll discuss what I've got.

Since the SNS site is, like you say, just over the wall from one of our
POPs, providing an Internet pipe should be easy, too. For that matter,
the TAPR system is located at that site, and we could run a serial link
out of it for Internet access.

Don't get too cold in Montana. I hear it can get below 90 up there... :-)

Lee

On Wed, 22 Jul 1998, Harry Ridenour wrote:

> Lee,
> Thanks for the generous offer. Much of that equipment can be utilized as the
> AXIP project
> moves further along with the need for a Internet access. For sure the antenna
> and computer
> will be needed.....will probably be installed right over the wall from your
> place on
> Broadway (SNS site).
> Need to talk to you about the cavities....altho there is not a projected need
> for them on
> the AXIP project...there is a need for them in SanAntonio on the AX25 net.
> With all your spare time, cant understand why you dont want to operate a
> gateway......
> har har har!!!!!!!!!!!!!!!
> Will be outta touch till Mid-August...Getting dahellouttadis heat!!! Going to
> Montana!!
>
> 73 Harry N0CCW
>
> Lee Ziegenhals wrote:
>
> > I haven't been following the TEXNETAXIP closely, as ham radio isn't very
> > high on my priority list these days. :-(
> >
> > However, I do have some offers to make if it will help the cause. I still
> > have some PC equipment (mostly 386), a tri-band (144, 220, 440) antenna,
> > and various packet equipment, radios, and cans that may be of use. All of
> > this equipment was donated to the packet cause in San Antonio when I still
> > had the AX.25/Internet gateway set up here. I have been at a loss to
> > figure out what to do with all this gear, since it really doesn't belong
> > to any one person or group. If y'all are interested, I'll compile a
> > detailed list.
> >
> > I'd prefer for the stuff to stay in San Antonio and be put to use here,
> > since it was all bought with donations from San Antonio hams. I do NOT
> > have time to maintain a packet gateway here again, but I'd be more than
> > happy to help set things up if I can be of use. I would also be willing
> > to provide an Internet connection, depending on location and speed needed.
> >
> > Lee
>
>
>

From w9ddd@tapr.org Fri Jul 24 22:30:23 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id WAA29355; Fri, 24 Jul 1998 22:30:22 -0500
(CDT)
Date: Fri, 24 Jul 1998 22:30:22 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org
cc: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:56] NOS....DUH
In-Reply-To: <3.0.32.19980706203817.00b36074@tapr.org>
Message-ID: <Pine.BSI.3.91.980724222059.28819D-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, after dragging home from the first day back to work after vacation,
I started checking out the 386SX MB and VGA card that Altex donated (I
don't think they'll mind me telling who it was). I've got it up and
booting Linux from the flash card up to a point.......and that is where I
get the message that says kernel compiled for 486 or better.

Allen, what do we lose by recompiling for 386? (or is that an option>)
Also for the moment I only have 4MB of RAM to put into the thing. Didn't
complain so far, but then it didn't get very far either. Since I don't
have a book on the board, I don't know for sure, but I think it will take
some bigger SIMM without a problem, just as soon as I find some 30 pin
ones. Actually I just got a flyer from JDR that seemed to have some
decent (for them) prices on some 30 pin SIMMs.

John Koster, W9DDD
<w9ddd@tapr.org>

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==========================================================================
Character - doing what is right when no one is watching. J. C. Watts

From wa5vms@tapr.org Sat Jul 25 06:23:32 1998
Received: from Pjsboro.intellex.com ([206.214.204.161]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id GAA17712
for <texnetaxip@tapr.org>; Sat, 25 Jul 1998 06:23:30 -0500 (CDT)
Message-Id: <3.0.32.19980725070405.00aa6bc0@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 25 Jul 1998 07:04:08 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Comments
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

The price on 30 pin SIMM memory at JDR is pretty good, I saw the same pricing.

I have another place that may beat them but this place has an eight dollar
shipping and handling charge. I save up several things when I buy from them.

I received a flyer from CDW at work. I almost tossed it out but late in the
day, with a few minutes to kill, I decided to look through the flyer to see
what they had.

They are selling the ATA Flash Memeory at some decent prices. $130 will get
you 20 MB and $230 will get you 40 MB.

If I remember correctly, they have the Flash memory all the way up to about
120 mb with a steep price going along with it.

Looks like the 20 mb is the best deal.

Joe

==========================================================================
MONTHLY ARCHIVE: texnetaxip.9808
MONTH: 1998-08
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9808
==========================================================================

From w9ddd@tapr.org Sat Aug 01 10:39:00 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id KAA25783; Sat, 1 Aug 1998 10:38:58 -0500
(CDT)
Date: Sat, 1 Aug 1998 10:38:57 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org, "Geiger, Ed" <egeiger@UnitedMechanical.com>
Subject: Y2K
In-Reply-To: <3.0.32.19980725070405.00aa6bc0@tapr.org>
Message-ID: <Pine.BSI.3.91.980801102941.25032A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry this is a little off topic, but figure most of us have some
curiousity about this.

I ordered an inexpensive motherboard the other day (not here yet) and one
of the disclaimers was that it was not Y2K compliant. This got me a
little curious about what some of the PC's do when the clock rolls over
at the end of 1999.

DOS 6.22 seems to chug merrily along comming up with the right year and
having the right day of the week. However a re-boot runs things back to
1-1-1980. The CMOS seems to jump back to 1-1-1980 instead of rolling
over. If I set the CMOS after midnite, then it seems to carry on OK
after that. Since the CMOS chip only stores the last two digits, I guess
the jump back to 1980 has to be a funtion of the BIOS. As I'm typing,
I'm thinking that I ought to see what happens on a roll over from 2000 to
2001. It possible the BIOS will barf on any year roll over after 1999.

Wonder what kinds of experience other have had?

John Koster, W9DDD
<w9ddd@tapr.org>
```

From wa5vms@tapr.org Sat Aug 01 11:40:16 1998
Received: from Pjsboro.intellex.com ([206.214.204.197]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id LAA28233
for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 11:40:13 -0500 (CDT)
Message-Id: <3.0.32.19980801122122.00b44d28@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 01 Aug 1998 12:21:25 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:70] Y2K
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John

I am glad you brought up a discussion on this subject.

I have been building all of these Linux machines, some of which are using
motherboards that have been purchased at computer swap meets.

I wonder how many of these boards have a Y2K problem.

I need to do a bit of research on this since I do not wish to go back and
start over from square one when the year 2000 hits us.

The thought crossed my mind that a bunch of the stuff showing up on the
used market might be there because of the Y2K problem.

I started to wonder about the Compaq Prolinea 4100's that I picked up too
cheap. Need to check on those machines.

Keep me posted.

Joe

From w9ddd@tapr.org Sat Aug 01 18:48:52 1998
Received: (from w9ddd@localhost) by tapr.org (8.7.5/8.7.3/1.9) id SAA26382; Sat, 1 Aug 1998 18:48:49 -0500
(CDT)
Date: Sat, 1 Aug 1998 18:48:47 -0500 (CDT)
From: John Koster <w9ddd@tapr.org>
To: texnetaxip@tapr.org, "Geiger, Ed" <egeiger@UnitedMechanical.com>
Subject: Re: [TEXNETAXIP:71] Re: Y2K
In-Reply-To: <3.0.32.19980801122122.00b44d28@tapr.org>
Message-ID: <Pine.BSI.3.91.980801183954.22306A-100000@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I checked my other PC with Linux and essentially the same results kernel
1.2.8 rolled on past with no problem. The CMOS though went back to
1-1-1980. I have an IBM AT BIOS source code listing and it shows that
they used one of the other bytes in the CMOS memeory to store the
"century byte". So they didn't completely ignore the situation. I'll
do a little more studying of the listing to see if I can tell why it
jumps back to 1980. The data sheet on the 146818 doesnt' say much about
what would happen when year 99 rolls to 00. Also I havent' figured out
what goes on with the day of the week byte. They also don't seem to say
how that is calculated in the chip. The two OS'es seem to come up with
the correct day for Jan 1st of '00.

Interesting to study, but if it's simply a matter of reseting the clock
after the roll over, I don't see spending a bunch of time on a BIOS patch.

BTW both of the MB's checked so far have been AMI BIOSes.

John Koster, W9DDD
<w9ddd@tapr.org>

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Character - doing what is right when no one is watching. J. C. Watts

On Sat, 1 Aug 1998, Joe S. Borovetz wrote:

> John
>
> I am glad you brought up a discussion on this subject.
>
> I have been building all of these Linux machines, some of which are using
> motherboards that have been purchased at computer swap meets.

>
> I wonder how many of these boards have a Y2K problem.
>
> I need to do a bit of research on this since I do not wish to go back and
> start over from square one when the year 2000 hits us.
>
> The thought crossed my mind that a bunch of the stuff showing up on the
> used market might be there because of the Y2K problem.
>
> I started to wonder about the Compaq Prolinea 4100's that I picked up too
> cheap. Need to check on those machines.
>
> Keep me posted.
>
> Joe
>
>
>
>
>
>
>
>

From jmneely@ibm.net Sat Aug 01 20:13:26 1998
Received: from out4.ibm.net (out4.ibm.net [165.87.194.239]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
UAA01566 for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 20:13:24 -0500 (CDT)
Received: from betsy (slip-32-100-167-221.tx.us.ibm.net [32.100.167.221]) by out4.ibm.net (8.8.5/8.6.9) with
SMTP id BAA49860 for <texnetaxip@tapr.org>; Sun, 2 Aug 1998 01:13:15 GMT
Message-Id: <199808020113.BAA49860@out4.ibm.net>
X-Sender: jmneely@pop5.ibm.net
X-Mailer: QUALCOMM Windows Eudora Pro Version 4.0.1
Date: Sat, 01 Aug 1998 20:06:11 -0500
To: texnetaxip@tapr.org
From: Jim Neely <jmneely@ibm.net>
Subject: Re: [TEXNETAXIP:70] Y2K
In-Reply-To: <Pine.BSI.3.91.980801102941.25032A-100000@tapr.org>
References: <3.0.32.19980725070405.00aa6bc0@tapr.org>
Mime-Version: 1.0
Content-Type: multipart/mixed;
boundary="====================_531350534==_"

--====================_531350534==_
Content-Type: text/plain; charset="us-ascii"

Here's a program I have run to test hardware for compliance. It seems
pretty reliable.

jn

At 10:39 AM 8/1/98 -0500, John Koster wrote:
>Sorry this is a little off topic, but figure most of us have some
>curiousity about this.
>
>I ordered an inexpensive motherboard the other day (not here yet) and one
>of the disclaimers was that it was not Y2K compliant. This got me a
>little curious about what some of the PC's do when the clock rolls over
>at the end of 1999.

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Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="2000.exe"

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```
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Jim Neely
jmneely@ibm.net wa5lhs@tapr.org
--====================_531350534==_--

From jmneely@ibm.net Sat Aug 01 20:43:18 1998
Received: from out4.ibm.net (out4.ibm.net [165.87.194.239]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
UAA03089 for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 20:43:17 -0500 (CDT)
Received: from betsy (slip-32-100-167-221.tx.us.ibm.net [32.100.167.221]) by out4.ibm.net (8.8.5/8.6.9) with
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X-Mailer: QUALCOMM Windows Eudora Pro Version 4.0.1
Date: Sat, 01 Aug 1998 20:39:51 -0500
To: texnetaxip@tapr.org
From: Jim Neely <jmneely@ibm.net>
Subject: Re: [TEXNETAXIP:73] Re: Y2K
In-Reply-To: <199808020113.BAA49860@out4.ibm.net>
References: <Pine.BSI.3.91.980801102941.25032A-100000@tapr.org>
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Well, that's what happens when you use store bought software instead of
shareware. Sorry for the junk. I'll figure out the attach problem and
send it again.

jn

At 08:16 PM 8/1/98 -0500, you wrote:
>--====================_531350534==_
>Content-Type: text/plain; charset="us-ascii"
>
>Here's a program I have run to test hardware for compliance. It seems
>pretty reliable.
>
>jn
>

Jim Neely
jmneely@ibm.net wa5lhs@tapr.org

From jmneely@ibm.net Sat Aug 01 21:19:49 1998
Received: from out4.ibm.net (out4.ibm.net [165.87.194.239]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
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Message-Id: <199808020219.CAA89130@out4.ibm.net>
X-Sender: jmneely@pop5.ibm.net
X-Mailer: QUALCOMM Windows Eudora Pro Version 4.0.1
Date: Sat, 01 Aug 1998 21:18:11 -0500
To: texnetaxip@tapr.org
From: Jim Neely <jmneely@ibm.net>
Subject: Try this
Mime-Version: 1.0
Content-Type: multipart/mixed;
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Content-Type: text/plain; charset="us-ascii"

See if this comes through any better. For Y2K hardware testing.

jn

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Content-Type: text/plain; charset="us-ascii"

Jim Neely
jmneely@ibm.net wa5lhs@tapr.org
--=====================_535336570==_--

From wa5vms@tapr.org Sat Aug 01 21:39:02 1998
Received: from Pjsboro.intellex.com ([206.214.204.191]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id VAA05802
for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 21:38:57 -0500 (CDT)
Message-Id: <3.0.32.19980801222007.00aaa264@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 01 Aug 1998 22:20:14 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Y2K
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi John

The Compaq Prolineas seem to be OK. I reset the date to Mar 15 2000 and it
stayed there. Not sure about the P60 motherboard that I used in one of my
Linux boxes.

Right now it is under test to see if I fixed the problem where something in
Linux gobbled up all of the free memory until the machine locked up.

As soon as that machine appears stable, I will shut it down and see how it
deals with Y2K.

John, I also have a suspicion that the Motorola RSS programming software
may have some Y2K problems. Seems that they will not renew my subsciption
for some packages past Dec. 31, 1999.

Jim, looks like your program missed the second time. I would like to have
something to check for sure.

Joe

From morganb@inetport.com Sat Aug 01 23:06:09 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
XAA09133 for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 23:06:08 -0500 (CDT)
Received: from as01-11.inetport.com (as01-11.inetport.com [204.96.100.91])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id XAA09191
for <texnetaxip@tapr.org>; Sat, 1 Aug 1998 23:06:14 -0500 (CDT)
Message-Id: <3.0.1.16.19980802032653.237f8c1e@inetport.com>
X-Sender: morganb@inetport.com (Unverified)
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Sun, 02 Aug 1998 03:26:53
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Y2K
In-Reply-To: <Pine.BSI.3.91.980801102941.25032A-100000@tapr.org>
References: <3.0.32.19980725070405.00aa6bc0@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:39 AM 8/1/98 -0500, you wrote:
>Sorry this is a little off topic, but figure most of us have some
>curiousity about this.
>
>I ordered an inexpensive motherboard the other day (not here yet) and one
>of the disclaimers was that it was not Y2K compliant. This got me a
>little curious about what some of the PC's do when the clock rolls over
>at the end of 1999.
```

>
>DOS 6.22 seems to chug merrily along comming up with the right year and
>having the right day of the week. However a re-boot runs things back to
>1-1-1980. The CMOS seems to jump back to 1-1-1980 instead of rolling
>over. If I set the CMOS after midnite, then it seems to carry on OK
>after that. Since the CMOS chip only stores the last two digits, I guess
>the jump back to 1980 has to be a funtion of the BIOS. As I'm typing,
>I'm thinking that I ought to see what happens on a roll over from 2000 to
>2001. It possible the BIOS will barf on any year roll over after 1999.
>
>Wonder what kinds of experience other have had?

I ran some tests on an AMI BIOS on a 486 board last winter, which I was
building up for a wx server at New Braunfels (still under construction).
DOS itself is good to 2099 as the theory goes. That BIOS stumbled when
it crossed the barrier, and needed to have its date reset via the SETUP
routine alter Jan 1, 2000, and had to see all 4 digits entered in the
year from the keyboard for it to behave after that. It appeared it
was operating in a different year-space of 4 digit numbers at that time,
compared to what it was doing in this century. I did play with it
on successive months dates, not sure if I went an even year into the
future after that, but did test other potential stumbling points and
it did behave OK after that.

Gawdalmighty, what ever happened to 16-bit unsigned arithmetic?
I must be one of the few that ever encoded the date out to year 65535,
or at least to 9999 if you are stuck with a 4 digit I/O format.

We were kicking around this stuff at Linux users group last month,
and one of the gurus noted that there are some potential problems with
some of microcra$h stuff, I think ACCESS came to mind. As I remember
the discussion, it didn't quit stone cold, but there must have been some
problems interpreting some dates after 2000, and it could have been things
like precision or roundoff errors (maybe they used floating point, I dunno).

Bottom line, don't sit around wondering, just take a spare machine that
doesn't have any mission critical files in it, and set the date to whatever
needs to be checked and test it. Since there are some bugs in quite a few
of the BIOS's, Linux could take a hit there too, since it boots with
whatever the onboard clock thinks it is.

73 de Bob WB5AOH

From jmneely@ibm.net Sun Aug 02 13:16:15 1998
Received: from out4.ibm.net (out4.ibm.net [165.87.194.239]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
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Received: from slip-32-100-167-162.tx.us.ibm.net (slip-32-100-167-162.tx.us.ibm.net [32.100.167.162]) by
out4.ibm.net (8.8.5/8.6.9) with SMTP id SAA71196 for <texnetaxip@tapr.org>; Sun, 2 Aug 1998 18:15:57 GMT
Message-Id: <199808021815.SAA71196@out4.ibm.net>
From: "Jim Neely" <jmneely@ibm.net>
To: "texnetaxip@tapr.org" <texnetaxip@tapr.org>
Date: Sun, 02 Aug 98 13:14:16
Reply-To: "Jim Neely" <jmneely@ibm.net>
Priority: Normal
X-Mailer: PMMail 1.91 For OS/2
MIME-Version: 1.0
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Subject: Y2K test

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Let's see if OS/2 software can handel the file attach that W95 doesn't
seem to do too well with.

I sent a copy to myself and it worked, but going to the group it barfed the
last time.

Maybe number 3 will work.

jn

Jim Neely
Windows:Proof P.T. Barnum was right,
jmneely@ibm.net WA5LHS@TAPR.ORG

Jim Neely
Windows:Proof P.T. Barnum was right,
jmneely@ibm.net WA5LHS@TAPR.ORG

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zhQPhwEIe4bHFGkmCA0DkxEKlBAMCAwLGANDAQRJ7AE+OgkQNgErKjlYXwENBIa5h1xaDhDZMTgG
bQGRUtV9dAEPIgKpzB4FARsCAmwDJGV/ZWQuAC30+zDnLQICg6PZfyEBSPcIlkMaBAGA37YBEYYB
AH7aCQEgh/rUAQ0JAR4k8HR3hMwOzP4vAgggNSs9QBEsQUNeSzU0DFcywPCBAQEnP7DocECxRnxr
YGR9EgUHzREcPRyEjl9pwD0UauJgeMk2MDMLAyE9hyohOmAFxBplaGaFtnI0UlXYES4IyEmTLv8C
VgQFmSJrHT1VVmwkJAcERTOXIkV4Iz+yIHxkcZtj8lwhbblpb0EHLztoIXQII48jK12aFwxua/3+
DQDv/wwAGxVAFfZPtxbxFlcX2hc+IQwiKiLgOu5Q///RBQAIAAAwIQAAAA==

--_=_=_=IMA.BOUNDARY.EX2NVS138764=_=_=_--

From dwolf@internetMCI.com Sat Aug 08 18:43:38 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id SAA26247 for <texnetaxip@tapr.org>; Sat, 8 Aug 1998 18:43:36 -0500 (CDT)
Received: from as01-14.inetport.com (as01-14.inetport.com [204.96.100.94])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id SAA05108;
Sat, 8 Aug 1998 18:43:31 -0500 (CDT)
Message-Id: <3.0.1.16.19980808232412.3057ce62@inetport.com>
X-Sender: morganb@inetport.com (Unverified)
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Sat, 08 Aug 1998 23:24:12
To: texnetaxip@tapr.org
From: dwolf <dwolf@internetMCI.com> (by way of "Robert B. Morgan" <morganb@inetport.com>)
Subject: Wichita Falls, etc
Cc: dwolf <dwolf@internetMCI.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This is partly an excerpt from a TPRS-BOARD message I got from Dave Wolf:

One of the fellows I work with is Dan Osborne, WB5AFY of Vernon, TX. He
works in Irving during the week and goes home to Vernon on the weekends.
Anyway, Dan is a networking/server guru by profession. He recently installed
a dedicated full-time Internet connection at his place in Vernon, and is
interested in installing a TexNet node at his location. This would provide
coverage into Wichita Falls, that general vicinity into the Panhandle and
southern OK (Lawton area). Do you have anything you can send to Dan that
would tell him more about what you anticipate he needs to set up for the
ported Internet TexNet connection, Bob? I'll confirm his e-mail addresses on
Monday and pass them along.

73, Dave

Dave: have him sign onto this list. Also, there is a fellow in
Altus or Duncan or someplace that has been wanting to get a TexNet node
in that part of the world for at least 10 years. His name is Rex Ishmael,
I can't remember his callsign offhand, maybe Dan knows of him, and if
he does, they ought to get together. Also, I heard of a site someplace
in between Wichita Falls and Abilene that was available a few years
back as an RF relay point, in case that might be a means to re-establish
a path back into Abilene. Can't remember the details although I wrote
it down when I heard of it quite a few years ago.

I also talked to a fellow from the Houston area. Can't recall his
name/call right now, but he was acquainted with Bill Wade WD5HJP, and
he was interested in securing a feed into the Houston area, either via
the internet, or possibly by way of RF from Victoria. This came up after
a packet presentation I made at SummerFest here in Austin last Saturday.

Also, George Fremin K5TR, host of the DXC node in Round Rock, reports
that the UT ARC here in Austin has secured an ethernet drop in the
ham shack there at UT and it probably ought to be available for use
to connect to the internet DXC bridges and TexNet AXIP, and they are
interested in doing something there.

So, that brings the list of potential internet sites to the following:

Midland, Denton, San Antonio, Muskogee, Lafayette, Houston, Wichita Falls,
Laredo, Austin - all in various stages of planning or construction.
I think that Midland and Muskogee are probably farthest along,
of course the one in Lafayette is an existing DXC bridge site.

73 de Bob WB5AOH
Austin

From wd5ivd@tapr.org Sun Aug 09 12:22:00 1998
Received: from [168.191.230.109] ([168.191.230.109]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id MAA16160 for
<texnetaxip@tapr.org>; Sun, 9 Aug 1998 12:21:57 -0500 (CDT)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <v04011706b1f39705d420@[168.191.230.109]>
In-Reply-To: <199808020143.BAA89810@out4.ibm.net>
References: <199808020113.BAA49860@out4.ibm.net>
Date: Sun, 9 Aug 1998 12:12:50 -0600
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:74] Re: Y2K

Jim -- why don't you upload it to the TAPR software_lib and have Greg
Eubanks put it in the Misc area.

Greg

>Well, that's what happens when you use store bought software instead of
>shareware. Sorry for the junk. I'll figure out the attach problem and
>send it again.
>
>jn
>
>At 08:16 PM 8/1/98 -0500, you wrote:
>>--====================_531350534==_
>>Content-Type: text/plain; charset="us-ascii"
>>
>>Here's a program I have run to test hardware for compliance. It seems
>>pretty reliable.
>>
>>jn
>>
>
>Jim Neely
>jmneely@ibm.net wa5lhs@tapr.org

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

From wa5vms@tapr.org Sun Aug 30 07:23:45 1998
Received: from Pjsboro.intellex.com (road207-239.oknet1.net [198.247.207.239]) by tapr.org (8.7.5/8.7.3/1.9)
with SMTP id HAA10001 for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 07:23:43 -0500 (CDT)
Message-Id: <3.0.32.19980830080704.00b5a424@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 30 Aug 1998 08:07:09 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: SLIP Connection
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I am having a problem with the SLIP connection that I have between two PC's
that are running Linux.

These machines are part of the Texnet linking project. This link is an RF
link using two Freewave radios.

I keep losing the connection between the two machines. I never seem to lose
the process(when I use the command ps) the process is still listed. If I
check ifconfig, the connection is gone.

In order to re-establish the link, I have to go to each machine and run the
rc file that initializes the link.

I have tried an number of different things as a part of the process of
elimination. Things like plugging the wall transformers for the Freewave
radios into a UPS in order to avoid possible power line drop outs. I have
also tried enabling or disabling hardware flow control. As a desperate
measure, I shut down JNOS on both machines just to see if RF from the 9600
baud 450 MHz radios might be playing havoc with the 900 MHz radios.

This link may run for 4 days or it may run for just 12 hours.

The reason for choosing this type of connection over an ethernet connection
was due to the RF path link. The Freewave style radios appear to be the
only units that can handle a path eleven miles long. Right now, I cannot
maintain a connection on a path of 100 feet let alone eleven miles.

Does anyone in the group have some words of wisdom. If things do not
improve, I will be forced to re-group and change to an ethernet radio.

Joe

From jcm7181@usl.edu Sun Aug 30 08:32:40 1998
Received: from larry.wu3v.net (root@larry.wu3v.net [206.104.42.243]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP
id IAA12527 for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 08:32:39 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id NAA03953
for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 13:32:32 GMT
Message-Id: <3.0.6.32.19980830133114.00909620@larry.wu3v.net>
X-Sender: wu3v@larry.wu3v.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sun, 30 Aug 1998 13:31:14 +0000
To: texnetaxip@tapr.org
From: Jim Moore <jcm7181@usl.edu>
Subject: Re: [TEXNETAXIP:81] SLIP Connection
In-Reply-To: <3.0.32.19980830080704.00b5a424@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:28 AM 8/30/98 -0500, you wrote:
>Hello All
>
>I am having a problem with the SLIP connection that I have between two PC's
>that are running Linux.
>
>These machines are part of the Texnet linking project. This link is an RF
>link using two Freewave radios.
>
>I keep losing the connection between the two machines. I never seem to lose
>the process(when I use the command ps) the process is still listed. If I
>check ifconfig, the connection is gone.
>
>In order to re-establish the link, I have to go to each machine and run the
>rc file that initializes the link.

Joe I have forwarded this to n5knx my linux guru and the jnos maintainer,
but we need
some specifics. Are you doing this from jnos or the linux kernel?
Some versions of the linux kernel place a restriction on the number of slip
connections allowed. In addition if you are running the ax25 utils some of
those used the slattach which is an additional slip port. Also include the
routes used either from autoexec.nos (jnos) or from /etc/rc.d/rc.local (if
from linux side).

You might also try doing an occasional ping to see if you need that to keep
the circuit active. I do this on jnos to see if the daemon is still active
and if there is no response it kills the process and re-starts it. I can
send you that bash script if you want it. Maybe there is a timer in the
radio's router? Are you using the TAL radios or
freewave?

Jim WU3V

From dallen@cei.net Sun Aug 30 11:51:59 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
LAA22566 for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 11:51:57 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id LAA30648

for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 11:51:55 -0500 (CDT)
Message-Id: <3.0.5.32.19980830115146.008978e0@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Sun, 30 Aug 1998 11:51:46 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:81] SLIP Connection
In-Reply-To: <3.0.32.19980830080704.00b5a424@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Joe,

How about taking the script I sent you to keep your ppp connect alive and
modify it for the slip port?

Allen

At 07:28 AM 8/30/98 -0500, you wrote:
>Hello All
>
>I am having a problem with the SLIP connection that I have between two PC's
>that are running Linux.
>
>These machines are part of the Texnet linking project. This link is an RF
>link using two Freewave radios.
>
>I keep losing the connection between the two machines. I never seem to lose
>the process(when I use the command ps) the process is still listed. If I
>check ifconfig, the connection is gone.
>
>In order to re-establish the link, I have to go to each machine and run the
>rc file that initializes the link.
>
>I have tried an number of different things as a part of the process of
>elimination. Things like plugging the wall transformers for the Freewave
>radios into a UPS in order to avoid possible power line drop outs. I have
>also tried enabling or disabling hardware flow control. As a desperate
>measure, I shut down JNOS on both machines just to see if RF from the 9600
>baud 450 MHz radios might be playing havoc with the 900 MHz radios.
>
>This link may run for 4 days or it may run for just 12 hours.
>
>The reason for choosing this type of connection over an ethernet connection
>was due to the RF path link. The Freewave style radios appear to be the
>only units that can handle a path eleven miles long. Right now, I cannot
>maintain a connection on a path of 100 feet let alone eleven miles.
>
>Does anyone in the group have some words of wisdom. If things do not
>improve, I will be forced to re-group and change to an ethernet radio.
>
>Joe
>
>
>
>
>

From wa5vms@tapr.org Sun Aug 30 12:25:44 1998
Received: from Pjsboro.intellex.com (road207-233.oknet1.net [198.247.207.233]) by tapr.org (8.7.5/8.7.3/1.9)
with SMTP id MAA24877 for <texnetaxip@tapr.org>; Sun, 30 Aug 1998 12:25:42 -0500 (CDT)
Message-Id: <3.0.32.19980830130902.00b5b2ec@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 30 Aug 1998 13:09:08 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: SLIP
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks for the comments Jim and Allen

To clarify a couple of things on the radio issue:

I will be using the TAL radios to supply the Internet feed from my ISP to
the ethernet port on a Linux box at my home QTH.

>From this Linux box, I am using the Freewave radios on the SLIP connection
to another Linux machine. Jim, this second machine is the one that will be
running JNOS as a gateway to WA5TXX and crew. I also have JNOS up and
running on the Linux machine at the house.

I think this is as clear as mud.

Jim, the best thing to do is FAX you a copy of what is going on. That way
you can see what I am doing without me trying to put it in writing.

I have two slip connections up on each machine. sl0 is the Freewave link.
sl1 is the link to JNOS.

Allen, sounds like an idea to me. I will see where I buried those scripts
on the Linux box.

I was thinking along the same lines but could not see the forest for the
trees.

Joe

From wa5vms@tapr.org Mon Aug 31 06:25:13 1998
Received: from Pjsboro.intellex.com (road207-215.oknet1.net [198.247.207.215]) by tapr.org (8.7.5/8.7.3/1.9)
with SMTP id GAA00214 for <texnetaxip@tapr.org>; Mon, 31 Aug 1998 06:25:09 -0500 (CDT)
Message-Id: <3.0.32.19980831070833.00b5b984@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Mon, 31 Aug 1998 07:08:41 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:84] SLIP
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I visited with Allen last night via the landline.

I reached the point that I feel the next step is to hardwire the serial
link and eliminate the Freewave radios. Then I will see how long this one
stays up and running.

I re-started the "RF" connection yesterday morning and it crashed within
eight hours.

Joe

From jcm7181@usl.edu Mon Aug 31 10:33:21 1998
Received: from bp.ucs.usl.edu (root@bp.ucs.usl.edu [130.70.40.36]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP
id KAA19872 for <texnetaxip@tapr.org>; Mon, 31 Aug 1998 10:33:17 -0500 (CDT)
From: jcm7181@usl.edu
Received: from [130.70.43.63] (vlw324c.usl.edu [130.70.43.63])
by bp.ucs.usl.edu (8.9.1/8.9.1/ucs-server_1.2) with SMTP id KAA11244
for <texnetaxip@tapr.org>; Mon, 31 Aug 1998 10:32:55 -0500 (CDT)
Date: Mon, 31 Aug 1998 10:32:55 -0500 (CDT)
X-Sender: wu3v@larry.wu3v.net
Message-Id: <v01540b01b2102500ce44@[130.70.43.63]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: texnetaxip@tapr.org
Subject: Re: [TEXNETAXIP:84] SLIP

Joe I use this script to ping jnos and restart it if necessary,
I have also modified it to ping a troublesome appletalk router and
restart it with an expect script. I am sure you could modify it to
ping your slip port and keep it alive.

The script every 5 minutes pings jnos 8 times if 0 pings are returned it
finds the process id for jnos kills it and inittab restarts jnos. Following
that the system will send me mail telling me the time jnos was restarted.

```
#!/bin/bash
# start NOS on a specific vt
while test -f /nos/nosreset
do
```

```
if
ping -q -c 8 44.108.0.46 | grep "0 packets received" > /dev/null
then
ps -aux | grep " ./jnos" | while read user pid rest
do
kill -STOP ${pid} 2> /dev/null
sleep 2
kill -KILL ${pid} 2> /dev/null
done
sleep 20
echo "JNOS was restarted by nosreset" | mailx -s "JNOS reset" wu3v
fi
sleep 300
done
```

```
================================================================================
MONTHLY ARCHIVE: texnetaxip.9809
MONTH: 1998-09
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9809
================================================================================

From wa5vms@tapr.org Fri Sep 11 21:46:12 1998
Received: from Pjsboro.intellex.com (road207-241.oknet1.net [198.247.207.241]) by tapr.org (8.7.5/8.7.3/1.9)
with SMTP id VAA04877 for <texnetaxip@tapr.org>; Fri, 11 Sep 1998 21:46:10 -0500 (CDT)
Message-Id: <3.0.32.19980911223031.00abc764@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Fri, 11 Sep 1998 22:30:33 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Security
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

Just thought I might start a discussion of Internet security issues since I
will be hanging a Linux box off of the end of a 24 hour per day connection
to the Internet, actually, there will be two Linux machines invloved in
this project, both running off of this connection.

I have the TAL radios up and running, still have the site work to do at the
ISP. I will do the site work when I get a break at work. Too bad when a job
gets in the way of having fun.

If I remember right, Allen had some one mess with his zorak box recently
and did some damage. I am running IP-masquerade under a set up similar to
what Allen had.

Any thought from the group on this subject.

Joe

From morganb@inetport.com Sat Sep 12 20:53:36 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
UAA00981 for <texnetaxip@tapr.org>; Sat, 12 Sep 1998 20:53:35 -0500 (CDT)
Received: from as02-19.inetport.com (as02-19.inetport.com [204.96.100.147])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id TAA24636
for <texnetaxip@tapr.org>; Sat, 12 Sep 1998 19:57:24 -0500 (CDT)
Message-Id: <3.0.1.16.19980913003429.27ef298a@inetport.com>
X-Sender: morganb@inetport.com (Unverified)
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Sun, 13 Sep 1998 00:34:29
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: AX-IP node coordinated in Austin
In-Reply-To: <3.0.1.16.19980802032653.237f8c1e@inetport.com>
References: <Pine.BSI.3.91.980801102941.25032A-100000@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This last week saw the coordination of a new node which will interface
TexNet to the internet, here in Austin, and as such will greatly enhance
my ability to start the whole installation process on the actual internet.
I had been wondering how (un)sucessful I might be trying to start up
the first one in either Denton or San Antonio instead of locally. Now
```

the problem is solved for me, and one of the nice things was they came to
me, and I didn't have to go beat the bushes. "They" in this case was
the UT radio club and the local DX cluster, who are sponsoring the node.
As usual, the DXC support of TexNet continues to keep us going. Many
thanks to all of them.

Anyhow, the new node will be at the Univ of Texas radio club station.
They very recently got an ethernet feed from someplace downstairs on
the internet, and it is on an existing PC router inside the ham shack,
so AX25IPD will install on that PC, run out the serial port to the
TexNet node, which in this case is an MFJ1270 contributed by George, K5TR.
The site is about a mile north of the Austin TexNet node, in plain line
of site view with no obstructions. I elected to use one of our old RCA700's
that had a weak/blown final and no preamp. I might even have to install
an antenna on it, but it shouldn't take much. I got a user account on
that router/pc and it works now. They are already doing other things with it,
among other things it is the mail server for the club. Jim in Lafayette
has already pinged it, reports the roundtrip time might have been a
tad sluggish, but that was at the time the Lewinsky/Clinton file was
just being released on the net, so it might possibly represent worst case.

The node took about 2 afternoons to get running. Now I haven't got any
AXIP software in it, just plain old TexNet for a 1-port node, but
it is running here on the bench. I think all of the components came out
of the scrappile someplace or other, we didn't run out and buy anything.
I have left room to install a firecode daughterboard, and if I have
time I may breadboard up a firecode decoder. I will use the node on
the bench to test and debug the kiss driver and the AXIP stuff, and when
that is done, it can be installed at UT, and we will be off and running.

Well as they say, it is only software. That is next. It is likely
to take a little more time, but when it is done, then the software goes
to all of the internet interface nodes and then we should be able to
complete our project.

The particulars on this node are: Club call is N5XU, nodename/alias
is UTEXAS, and node number is 41. UT ARC had just recently changed its
club callsign, trading in W5EHM on N5XU. They tell me that back when
dirt and radio were both new, the callsign was 5XU (experimental instead
of the usual Y-series club stations), and they managed to "recover" it.

73 de Bob WB5AOH
Austin

From morganb@inetport.com Sat Sep 12 21:33:50 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
VAA10558 for <texnetaxip@tapr.org>; Sat, 12 Sep 1998 21:33:48 -0500 (CDT)
Received: from as02-19.inetport.com (as01-24.inetport.com [204.96.100.104])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id VAA28379
for <texnetaxip@tapr.org>; Sat, 12 Sep 1998 21:33:52 -0500 (CDT)
Message-Id: <3.0.1.16.19980913020932.2dd775aa@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Sun, 13 Sep 1998 02:09:32
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Security
In-Reply-To: <3.0.32.19980911223031.00abc764@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:51 PM 9/11/98 -0500, you wrote:
>Hello All
>
>Just thought I might start a discussion of Internet security issues since I
>will be hanging a Linux box off of the end of a 24 hour per day connection
>to the Internet, actually, there will be two Linux machines invloved in
>this project, both running off of this connection.
---snip---
>If I remember right, Allen had some one mess with his zorak box recently
>and did some damage. I am running IP-masquerade under a set up similar to
>what Allen had.
>
>Any thought from the group on this subject.
>
>Joe

This one almost keeps me awake at nights. We usually talk about it a
little bit from time to time at the local Linux group every week.
Out of that discussion have come the names of a few add-on security
packages such as: tripwire, courtney, klaxon, deception toolkit, and
there are probably others. These might be used together as they don't
quite all do the same jobs. Tripwire catalogs files (executables and
others that shouldn't change content or be written to) and logs any
unexpected changes. Klaxon notifies somebody if any ports are scanned.
The deception toolkit watches ports that are either unused or reserved
not to be used and bounces back a message to an eavesdropper that he
is being monitored, and logs the stuff as well, which may serve to
scare off an intruder. Some of the logging is useful enough to be
entered as evidence in court, should things come to that. One decision
up front in all security policies of an organization is to decide where
they fit on the spectrum of security: one end is a little more open
and uses legal action to deal with intruders, the other end is a little
more closed up, depends less on legal action against intruders and
possibly be less likely to be the object of a suit (usually by a corporate
customer of a commercial entity which has had its security breached,
a bank or a vendor for example). If you anticipate prosecuting an
intruder, of necessity you have to have the system opened up a little
to allow it to log his activities as he hacks his way along through it.
I actually have been reading up on the subject, if it isn't already apparent.

I haven't used or looked at these yet, but they come with good
recommendations.
Wonder if anyone has happened to run across any of these?

Other usual precautions are to remove things useful to hackers from
any system that is exposed directly to the internet. These include
any editors that can be used remotely (as opposed to just the local keyboard,
and on unix this is probably most of the editors), and all compilers
and related programs like linkers, librarians and other things that
can write to system files. Of course, in a lot of cases that means
they have to exist on some nearby system that isn't exposed. Maybe
one might be able to mount them on removeable disks, or copy them in as
required just when system work needs to be done. Usually ftpd has
to go, and sometimes telnetd. Last and certainly not least, passwords
and accounts need to be kept secure and not easily guessed at.
The concensus of our Linux group is that the weakest link in security
is user accounts and passwords.

As for our particular concerns with our AXIP network, I have a few specific
ideas, mostly related to concealing the identity of the systems we
are using. At the top of the list is that we ought to safeguard as
very private information any domain names, and especially any files
that list all of them at once. That means specifically the ax25ipd.conf
files at each system, since they necessarily have clear text references
to all of the other servers (by 4-byte address number). I really don't
want to list them on this mail reflector, I would much prefer to just pass
the information privately between persons as it is needed from time to time.
The reason for this concern is that almost any intruder that runs across
that table would then be able to figure out right away that if he could
hack into one, he could hack into all, and have the list in hand, and
could do considerable damage on several of them in short order.

When I got my own account on the server at the UT radio club, I
specifically told the sysop that I didn't want root priveleges, at
least not yet, and for several reasons. One reason is to protect
the system from myself. If I mistype something that will cause a file write,
it won't be dangerous if I am not signed on as root. That is good practice
for everybody in general to do all of their routine Linux stuff as an
unprivleged user account, leaving manipulations as root to those which
are essential. But ALSO, I want to be able to do all remote management
without having root priveleges, and that remote management should be
limited to just editing the routing from time to time as we add nodes
or rearrange traffic flows. There just isn't anything in AXIP that
needs tweaking other than routing. If we have to upgrade or reconfigure
something, that requires root priveleges, and probably ought to be
done on site. Since we might have servers that will exist as firewalls,
we probably won't have editors on them, and ftp and telnet might
not be there either. I am thinking of some simple editor that will
be hardcoded to only edit the routing file and nothing else, although
I haven't started looking into it in detail yet. It is possible that
it could be necessary to create a group class with some priveleges on
only certain file(s) just within AXIP, and this essentially is one

executable and one .conf file as it stands now. Another minor
important point is that I want to write the TexNet AXIP code in such
a way that it is unlikely that it will need to send any internet
addresses as such over the air in radio packets. If this has to be
done at all, it ought to happen only if a TexNet sysop is doing it
with the funnybit set for sysop use, and he preferably should do it
on a UHF FSK trunk, and not on a frequency that users easily can monitor.
I don't want anybody having access to any of our internet addresses,
and if they get one of them they can probably eventually collect all of
them.

Consider what most hackers in Linux/Unix or other multitasking
environments are after. About all a hacker can do with a single user
system is to trash it or kill it. Multitaskers are much more difficult
to do that to, but a hacker finds value in keeping a multitasker running,
and then using it for his own needs, like a temporary server to cause
harm elsewhere. It might be used to send anonymous spam to the ends
of the earth, or used as an intermediary node to keep his hacking
anonymous by making end to end tracing more difficult. Now none of
these things have anything to do with ham radio, they are risks that
anybody takes when they hang any system on the internet. Anyone that
hangs a system on the internet has an unwritten responsibility to
make it difficult for some hacker to use their system to send spam
and mayhem to the world, regardless of what the intended purpose of
the given system happens to be.

As hams, we also have to ensure that any packets that are squirted
out over the air are those of bonafide licensed operators, in so far
as we can distinguish that without actually having to invade somebody's
ham shack to see if he has a current license in his possesion. What I
am saying here is I want to make it more difficult for any non-ham to
inject packets into our radio network by spoofing them into the AXIP
datastreams we may happen to have on the internet. What I have seen
of AXIP is that it doesn't do any address validity testing on packets
inbound from the internet. I am considering patching AXIP to do a test
of all inbound packets to see if they are coming from one of the addresses
listed in the outbound table, and reject/log those that don't. That
doesn't keep someone from spoofing addresses, but it does introduce
another element of uncertainty. If combined with an expected callsign,
or maybe even some TexNet nodenumbers, it might make IP address spoofing
much more difficult as other information more or less unknown to
anybody not versed in AX25 or TexNet IP would also be required to be spoofed.
Other than that, we continue the occasional practice of watching the
traffic on the trunk scroll by to spot things that don't quite look right,
and be aware of any users noticing things that don't seem as they should
and track them down.

Network security is not possible to perfect. It is like locking your
doors and windows, if you do a better than average job of it, problems
will go where things are easier to get into. Also it requires some
monitoring of things from time to time, like looking at system log files
looking for suspicious logins, and look at the security logs if any
are in use, and also monitor what traffic is flowing from time to time.
Another concern is that if we build a good enough network northbound
from S Texas that it might be used to coordinate drug running without
our knowledge, and that also involves watching traffic flows from time
to time looking for unusual activity to/from unusual locations.

I would like to hear the details of Allen's problem, if he can share
them with us.

Anybody have any other concerns that I haven't touched on? I don't think
that this list is all inclusive. This is a pretty big subject.

73 de Bob WB5AOH

From jcm7181@usl.edu Sat Sep 12 21:44:21 1998
Received: from larry.wu3v.net (root@[206.104.42.243]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id VAA11146
for <texnetaxip@tapr.org>; Sat, 12 Sep 1998 21:44:20 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id CAA09465
for <texnetaxip@tapr.org>; Sun, 13 Sep 1998 02:43:45 GMT
Message-Id: <3.0.6.32.19980913024342.00924100@pop.usl.edu>
X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sun, 13 Sep 1998 02:43:42 +0000
To: texnetaxip@tapr.org

From: Jim Moore <jcm7181@usl.edu>
Subject: Re: [TEXNETAXIP:88] AX-IP node coordinated in Austin
In-Reply-To: <3.0.1.16.19980913003429.27ef298a@inetport.com>
References: <3.0.1.16.19980802032653.237f8c1e@inetport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:07 PM 9/12/98 -0500, you wrote:
>
>Anyhow, the new node will be at the Univ of Texas radio club station.
>They very recently got an ethernet feed from someplace downstairs on
>the internet, and it is on an existing PC router inside the ham shack,
>so AX25IPD will install on that PC, run out the serial port to the
>TexNet node, which in this case is an MFJ1270 contributed by George, K5TR.
>The site is about a mile north of the Austin TexNet node, in plain line
>of site view with no obstructions. I elected to use one of our old RCA700's
>that had a weak/blown final and no preamp. I might even have to install
>an antenna on it, but it shouldn't take much. I got a user account on
>that router/pc and it works now. They are already doing other things with
it,
>among other things it is the mail server for the club. Jim in Lafayette
>has already pinged it, reports the roundtrip time might have been a
>tad sluggish, but that was at the time the Lewinsky/Clinton file was
>just being released on the net, so it might possibly represent worst case.

I did a few pings and traceroutes and the result tonight was between 70 and
80 ms

Not bad at all we should have a very fast path over to Austin!

Jim WU3V

==
WU3V DX Cluster telnet to moe.wu3v.net
BBS telnet to gate.wu3v.net
email jim@usl.edu
==

From dallen@cei.net Mon Sep 14 20:16:14 1998
Received: from mail.cei.net (mail.cei.net [204.117.117.29])
by tapr.org (8.8.5/8.8.5) with ESMTP id UAA01482
for <texnetaxip@tapr.org>; Mon, 14 Sep 1998 20:16:05 -0500 (CDT)
Received: from raymond.cei.net (raymond.cei.net [204.180.109.58])
by mail.cei.net (8.8.8/8.8.6) with SMTP id MAA13130
for <texnetaxip@tapr.org>; Sun, 13 Sep 1998 12:33:33 -0500 (CDT)
Message-Id: <3.0.5.32.19980913123322.007bcc70@cei.net>
X-Sender: dallen@cei.net
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.5 (32)
Date: Sun, 13 Sep 1998 12:33:22 -0500
To: texnetaxip@tapr.org
From: Allen Finne <dallen@cei.net>
Subject: Re: [TEXNETAXIP:89] Re: Security
In-Reply-To: <3.0.1.16.19980913020932.2dd775aa@inetport.com>
References: <3.0.32.19980911223031.00abc764@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Joe, Bob , and the group,

I did indeed have some troubles a while back with zorak. It was a person or
persons from the same .edu domain each time. I finally denied anything from
that particular educational domain. They were trying various combinations a
passwords for superuser. I ended up cranking the logging levels and writing
some scripts that parse the logs twice a day looking for telnets, ftps,
port scans, attemping mail forwarding, etc. If any thing is found it sends
email to me a several various addresses. This dosn't address the issue of
what do you do if they screw around before you catch them. But so far,
99.5% of the folks poking on zorak seem to just be curious. I also save a
snapshot of various system config files and my home directory every two
days to tape. For the really paranoid out there, I suppose that upon
initial setup of a linux box, one could do a ls -al from / and capture that
to a file. After that, each time a backup is made you could parse the
capture file against a new file listing looking for file size changes,
ownership changes, and permission changes.
I am running a linux box at work that is an email server and DNS for the
building. I do the same thing there with several additions. I have turned

off all the various servers. i.e. finger, time service, etc. Telnet and ftp
are allowed only from 2 particular addresses. Of course if someone spoofs
the address I'm done. I also have set everybody's login to '/dev/null'
None of these things are perfect by any means - but they are a start.

Allen

At 09:35 PM 9/12/98 -0500, you wrote:
>At 09:51 PM 9/11/98 -0500, you wrote:
>>Hello All
>>
>>Just thought I might start a discussion of Internet security issues since I
>>will be hanging a Linux box off of the end of a 24 hour per day connection
>>to the Internet, actually, there will be two Linux machines invloved in
>>this project, both running off of this connection.
>---snip---
>>If I remember right, Allen had some one mess with his zorak box recently
>>and did some damage. I am running IP-masquerade under a set up similar to
>>what Allen had.

>
>I would like to hear the details of Allen's problem, if he can share
>them with us.
>
>Anybody have any other concerns that I haven't touched on? I don't think
>that this list is all inclusive. This is a pretty big subject.
>
>73 de Bob WB5AOH
>
>
>

From morganb@inetport.com Tue Sep 15 23:23:19 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2])
by tapr.org (8.8.5/8.8.5) with ESMTP id XAA00363
for <texnetaxip@tapr.org>; Tue, 15 Sep 1998 23:23:18 -0500 (CDT)
Received: from as01-23.inetport.com (as01-23.inetport.com [204.96.100.103])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id XAA12128;
Tue, 15 Sep 1998 23:23:12 -0500 (CDT)
Message-Id: <3.0.1.16.19980916033502.2f1730d6@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Wed, 16 Sep 1998 03:35:02
To: Ron Simpson <rs@ntconn.com>
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Hello
Cc: texnetaxip@tapr.org
In-Reply-To: <35FF1DCF.3684E968@ntconn.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:09 PM 9/15/98 -0700, you wrote:
>Hello Bob,
>
>Thanks for the information about the packe to internet connections, we
>are really looking forward to getting this online, and of course you
>guys will have access to our nodes.
>
>I can be reached at (702) 745-9055 or (702) 787-3769
>
>Ron Simpson
>560 Ferol Way
>Reno, NV 89503
>
>I also have a ham repeater on Mc Clellan Peak on 441.525 mhz that covers
>al of Northern Nevada. I will have a packet connection through this
>repeater. Allowing other hams to have access to this project I am
>attempting to do.
>
>Thank for your time!
>
>Ron Simpson, N6GKJ

Here's the initial reply, Ron. Thanks for the phone call this evening.

I am copying a TAPR mail reflector that we have running currently now
on this subject. We are in the process of implementing some TexNet
trunking with AX25IP, and are using this reflector to help keep ourselves
coordinated while we try to accomplish the goal. One of our good resources
in this department is Jim Moore, WU3V, in Lafayette, La, and he is on this
reflector too, and he has been running AX25IP for some time now. You might
also want to have a conversation with him about what you are wanting to do.
So if you like, sign onto this group, standard sign-on procedures
are on TAPR's web site (I'm not 100% sure if this one is open or closed,
if you have any trouble, let us know directly).

Jim passed the following two URL's along to me just the other day,
for more up to date downloads of AX25IP. I am going to get them
myself, but haven't actually fired up the browser and done it yet,
assuming it is a later version than the one I already have:

ftp://sunsite.unc.edu/pub/Linux/apps/ham/ax25/ax25-utils-2.1.42.tar.gz

also look at

http://sunsite.unc.edu/Linux/HOWTO/AX25-HOWTO.html

To the rest of the reflector: Ron called me on the phone this evening.
Apparently he found my address and phone number inside a TexNet code
archive for vers 1.72 on TAPR. Sounds like we might have a chance to
get some connectivity WAY out west, if what we are doing happens to match
Rob's needs. He has quite a bit of internet connectivity at his place,
and likes playing with it on ham radio.

73 de Bob WB5AOH

From morganb@inetport.com Tue Sep 15 23:23:20 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2])
by tapr.org (8.8.5/8.8.5) with ESMTP id XAA00380
for <texnetaxip@tapr.org>; Tue, 15 Sep 1998 23:23:20 -0500 (CDT)
Received: from as01-23.inetport.com (as01-23.inetport.com [204.96.100.103])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id XAA12131
for <texnetaxip@tapr.org>; Tue, 15 Sep 1998 23:23:16 -0500 (CDT)
Message-Id: <3.0.1.16.19980916040030.302f96b2@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Wed, 16 Sep 1998 04:00:30
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Update
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

to the group,

Well, I have most of the hardware running for a node that is to be installed
at the UT ARC here in Austin. I have it running (idling) on the
bench. It is a used MFJ TNC2, and I had to change a few IC's in it,
including RAM, before it was stable. It looks fine now. The only
other thing that I will probably do for it is maybe to add a firecode
detector to it.

Sunday I started locating addresses of
the sites that I was aware of, and started pinging them to see what
happened. I knew I hadn't seen any mail from TAPR, it became apparent
why when it wouldn't even ping. The site in Muskogee and the site in
Lafayette looked just fine. I tried apex2000.net in Midland and it
looked tolerable. I'm not 100% sure if that is the site we will actually
be using, or if it is just the mail server there that Les Bannon uses.
Anyhow, I would like to find out what the address is for the one in Denton
that we will be concerned with, also confirm the one in Midland. If
Frank in Laredo has some updated info, I would like to hear from him too,
and see what happens when I ping it too. I will run a few more tests
sometime soon.

The times that I was seeing looked like we shouldn't have too much trouble
making things work pretty much as we are used to on well behaved
radio links or point to point wireline links. It appears that it ought
to be much better than the old multidrop wireline out in west Texas.
Actually most of the ping times are considerably less than the modem training

time (effectively TXD) that we were used to running on the wirelines,
which was in the neighborhood of 300-400 mSec. These were on the order
of 80-200 mSec for packets that actually contained some data, maybe around
as much as AX25 needs to send an ack. Jim ran one test the same day
that the Lewinski/Clinton report hit the net, seems like it was 1700 mSec,
which we might consider as sort of a worst case benchmark of sorts.
If we had that kind of performance every day, day in and day out,
it would probably start to look like the west texas wireline. We would
have to stretch out the parameters to avoid generating unnecessary
retries, but that's about it. I expect it to beat that quite a bit.

It sure gets spooky on e-mail when TAPR is down. No e-mail. That is
almost unheard of. I sure can't complain about occasional downtime like
that, and from what I hear it was partly a planned upgrade. So thanks
Greg, and pass my thanks along to Lee also for keeping it running
as well as it does normally.

Now if I can only get some time to finish writing code. As they say,
it is only software.

73 de Bob WB5AOH

From wd5ivd@tapr.org Wed Sep 16 20:16:50 1998
Received: from [207.8.125.53] (greg-jones-pc4.customer.jump.net [207.8.125.53])
by tapr.org (8.8.5/8.8.5) with ESMTP id UAA01165
for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 20:16:49 -0500 (CDT)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <v04011704b225744de785@[207.8.125.53]>
In-Reply-To: <3.0.1.16.19980916040030.302f96b2@inetport.com>
Date: Wed, 16 Sep 1998 08:58:52 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:93] Update

Bob.

The TAPR IP in San Antonio will be used for the San Antonio link over to
the TexNet node there. The Denton location is a different IP.

Looks like the system went down again over the evening. Lee is trying to
keep an eye on it.

Greg

>to the group,
>
>Well, I have most of the hardware running for a node that is to be installed
>at the UT ARC here in Austin. I have it running (idling) on the
>bench. It is a used MFJ TNC2, and I had to change a few IC's in it,
>including RAM, before it was stable. It looks fine now. The only
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>be using, or if it is just the mail server there that Les Bannon uses.
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>Frank in Laredo has some updated info, I would like to hear from him too,
>and see what happens when I ping it too. I will run a few more tests
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>
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>radio links or point to point wireline links. It appears that it ought
>to be much better than the old multidrop wireline out in west Texas.
>Actually most of the ping times are considerably less than the modem training
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>which was in the neighborhood of 300-400 mSec. These were on the order
>of 80-200 mSec for packets that actually contained some data, maybe around
>as much as AX25 needs to send an ack. Jim ran one test the same day

>that the Lewinski/Clinton report hit the net, seems like it was 1700 mSec,
>which we might consider as sort of a worst case benchmark of sorts.
>If we had that kind of performance every day, day in and day out,
>it would probably start to look like the west texas wireline. We would
>have to stretch out the parameters to avoid generating unnecessary
>retries, but that's about it. I expect it to beat that quite a bit.
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>almost unheard of. I sure can't complain about occasional downtime like
>that, and from what I hear it was partly a planned upgrade. So thanks
>Greg, and pass my thanks along to Lee also for keeping it running
>as well as it does normally.
>
>Now if I can only get some time to finish writing code. As they say,
>it is only software.
>
>73 de Bob WB5AOH

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

From kc5goi@infospeedway.net Wed Sep 16 20:30:21 1998
Received: from pacecar.infospeedway.net (root@pacecar.infospeedway.net [207.43.207.96])
by tapr.org (8.8.5/8.8.5) with ESMTP id UAA02232
for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 20:30:18 -0500 (CDT)
Received: from guy- (ppp04.infospeedway.net [207.43.207.100]) by pacecar.infospeedway.net (8.8.7/8.6.9) with
SMTP id CAA32422 for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 02:46:20 -0500
Message-ID: <000a01bde146$19041460$64cf2bcf@guy->
From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
To: <texnetaxip@tapr.org>
Subject: Re: [TEXNETAXIP:93] Update
Date: Wed, 16 Sep 1998 02:46:20 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 4.72.3110.5
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3

Bob, I have been talking to Greg about the pc we are going to use at the
Denton site. Greg will give use the address for the box when we have it
ready. KD5BYY is our local linux guru and is working on it as time allows.
He also runs a local ISP.
I made a trip with Gerald (wb5nzv) to the Denton site and dont see the
second modem you were telling us about. This is the second port you were
telling me about in Arlington that could be used for APRS on TexNet. If
you are going to be in Chicago I will get with you and we can talk about it.
Since HamComm I put up an IGATE for APRS and when I get my hands on a SS
radio I will use it instead of my ppp to get the local APRS to the net.
73
Guy Story, KC5GOI
Silver Dome Mobile Pk. # 79
Denton Texas, 76208
940.243.0754
kc5goi@infospeedway.net
kc5goi@wb5cqu.ampr.org
www.infospeedway.net/~kc5goi/home.htm
-----Original Message-----
From: Robert B. Morgan <morganb@inetport.com>
To: texnetaxip@tapr.org <texnetaxip@tapr.org>
Date: Tuesday, September 15, 1998 11:27 PM
Subject: [TEXNETAXIP:93] Update

>to the group,
>
>Well, I have most of the hardware running for a node that is to be
installed
>at the UT ARC here in Austin. I have it running (idling) on the
>bench. It is a used MFJ TNC2, and I had to change a few IC's in it,
>including RAM, before it was stable. It looks fine now. The only
>other thing that I will probably do for it is maybe to add a firecode
>detector to it.

>
>Sunday I started locating addresses of
>the sites that I was aware of, and started pinging them to see what
>happened. I knew I hadn't seen any mail from TAPR, it became apparent
>why when it wouldn't even ping. The site in Muskogee and the site in
>Lafayette looked just fine. I tried apex2000.net in Midland and it
>looked tolerable. I'm not 100% sure if that is the site we will actually
>be using, or if it is just the mail server there that Les Bannon uses.
>Anyhow, I would like to find out what the address is for the one in Denton
>that we will be concerned with, also confirm the one in Midland. If
>Frank in Laredo has some updated info, I would like to hear from him too,
>and see what happens when I ping it too. I will run a few more tests
>sometime soon.
>
>The times that I was seeing looked like we shouldn't have too much trouble
>making things work pretty much as we are used to on well behaved
>radio links or point to point wireline links. It appears that it ought
>to be much better than the old multidrop wireline out in west Texas.
>Actually most of the ping times are considerably less than the modem
training
>time (effectively TXD) that we were used to running on the wirelines,
>which was in the neighborhood of 300-400 mSec. These were on the order
>of 80-200 mSec for packets that actually contained some data, maybe around
>as much as AX25 needs to send an ack. Jim ran one test the same day
>that the Lewinski/Clinton report hit the net, seems like it was 1700 mSec,
>which we might consider as sort of a worst case benchmark of sorts.
>If we had that kind of performance every day, day in and day out,
>it would probably start to look like the west texas wireline. We would
>have to stretch out the parameters to avoid generating unnecessary
>retries, but that's about it. I expect it to beat that quite a bit.
>
>It sure gets spooky on e-mail when TAPR is down. No e-mail. That is
>almost unheard of. I sure can't complain about occasional downtime like
>that, and from what I hear it was partly a planned upgrade. So thanks
>Greg, and pass my thanks along to Lee also for keeping it running
>as well as it does normally.
>
>Now if I can only get some time to finish writing code. As they say,
>it is only software.
>
>73 de Bob WB5AOH
>

From wa5vms@tapr.org Wed Sep 16 22:17:58 1998
Received: from Pjsboro.intellex.com (road207-211.oknet1.net [198.247.207.211])
by tapr.org (8.8.5/8.8.5) with SMTP id WAA12257
for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 22:17:56 -0500 (CDT)
Message-Id: <3.0.32.19980916230202.00684dfc@tapr.org>
X-Sender: wa5vms@tapr.org (Unverified)
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Wed, 16 Sep 1998 23:02:42 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Muskogee Update
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I have made a bit of progress on this end of the network.

The TAL wireless radios are up and running. The only thing holding up the
connection to the ISP is the tower installation at the ISP site. Overtime
at work is killing me on this one, trying to figure out where the last few
weeks went.

The plan is to take a day of vacation, probably Friday or Monday. Maybe I
can get the bulk of the work done at the ISP on that day. Only reason I can
take a day off, had an electrician make a bunch of holes in a uP control
box instead of using the supplied conduit knckouts. That proceeded to void
the factory warranty and I had to deal with a four way finger pointing
contest today. Back to the real issue, that put me another four days behind
on this project so what the heck, might as well take off a day and be five
days behind.

Ping time between two linux boxes that are connected to the TAL radios runs
about an average of 46 ms. Compare this time to JNOS running on the same
two computers. JNOS is using 9600 baud radio ports and the average ping
time at 9600 is 468 ms. TXD on the 9600 radios is set at about 120ms.

Aside from the tower issue, the only real work to be done is some fine
tuning of the two Linux PC's that will be involved in this project. If I
get a free weekend this week, I hope to get that taken care of.

Next will come the real fun of making all of this work.

As for security, I talked with Allen on the phone the other night. I like
his idea for the Linux box sending him e-mail if someone plays around
trying to log in. That and a few other minor precautions should be all that
it takes.

One can get too paranoid about security. If someone does make it in, I will
have all of my setup files backed up to where I will not lose much.

Keeping my fingers crossed but I may have this end ready by late October.
Sure hope so.

As for the DCC, I was looking forward to making Chicago this year.
Unfortunately, this mess at work will keep me from attending. I hope those
in attendance have a good time.

73, Joe

From morganb@inetport.com Wed Sep 16 23:08:18 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2])
by tapr.org (8.8.5/8.8.5) with ESMTP id XAA15913
for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 23:08:17 -0500 (CDT)
Received: from as01-13.inetport.com (as01-13.inetport.com [204.96.100.93])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id XAA00281
for <texnetaxip@tapr.org>; Wed, 16 Sep 1998 23:08:15 -0500 (CDT)
Message-Id: <3.0.1.16.19980917034644.1897cebc@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Thu, 17 Sep 1998 03:46:44
To: texnetaxip@tapr.org
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: Update
In-Reply-To: <000a01bde146$19041460$64cf2bcf@guy->
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:02 PM 9/16/98 -0500, you wrote:
>Bob, I have been talking to Greg about the pc we are going to use at the
>Denton site. Greg will give use the address for the box when we have it
>ready. KD5BYY is our local linux guru and is working on it as time allows.
>He also runs a local ISP.
> I made a trip with Gerald (wb5nzv) to the Denton site and dont see the
>second modem you were telling us about. This is the second port you were
>telling me about in Arlington that could be used for APRS on TexNet. If
>you are going to be in Chicago I will get with you and we can talk about it.
>Since HamComm I put up an IGATE for APRS and when I get my hands on a SS
>radio I will use it instead of my ppp to get the local APRS to the net.
>73
>Guy Story, KC5GOI

The NCP board normally comes with one modem each for AFSK (user port)
and FSK (UHF trunk). It has a third place to plug in a third modem,
and normally the third modem has to be acquired separately. I am fairly
sure that is the case with Denton. At this point we need to acquire an
extra modem for you. I think that Harry had some extra ones turn up
a week or so down in SAT, and we might be able to get one of those up
that way, or we may have to breadboard one up. I think it will be
worth doing, if you can find a way on the site to install a 144.39 radio
and antenna. I would sure like to see that site running APRS on the spare
port. If someone up in the D/FW area can come up with just a 144.39
RADIO, we probably can put it at SDallas, which is downtown, and swap
the eprom on that node, and have instant APRS there. Since HamCom,
TexNet has been rewritten to handle APRS, and I think we are just a short
time away from having Denton, D/FW, Waco, Austin, and SAT all linked
together for APRS. Presently, the Waco node, and some temporary stuff
in Austin are handling APRS back and forth right now. I saw some of
it weekend before last when the fellows launched the balloon from Clifton,

it was into the Waco node just a couple of minutes after it lifted off.
I mentioned the SDallas possibility to Mike Heskitt a month or so ago,
hoping he might beat the bushes for a radio, if the site was something
that made sense from a local APRS viewpoint. Haven't heard anything yet.

I won't be making it to Chicago either. I was going to combine the
travel with Joe's expedition, which fell through, so I am going to
hang around Austin instead - have a good time for us. Meanwhile, among
a few other things I need to work on the NCP end of AXIP.

I pinged TAPR late last night, got around 60 mSec pings, which is decent.

73 de Bob WB5AOH

From wa5vms@tapr.org Sat Sep 26 06:15:00 1998
Received: from Pjsboro.intellex.com (road207-243.oknet1.net [198.247.207.243])
by tapr.org (8.8.5/8.8.5) with SMTP id GAA23982
for <texnetaxip@tapr.org>; Sat, 26 Sep 1998 06:14:58 -0500 (CDT)
Message-Id: <3.0.32.19980926070024.006fd370@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 26 Sep 1998 07:00:28 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: SLIP Connection Problem found
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

I decided to post this here since a number of the folks on this list have
been following my efforts to determine why I was losing the SLIP connection
(via the Freewave radios) between my two Linux machines.

When I looked at PS on the Linux boxes, I never lost the process, I would
simply lose the connection(no sl0 path listed when I do an ifconfig). There
were times the path would run for three days and then there were times it
would not run for eight hours.

I read the Freewave manual and I tried a couple of things to no avail. I
did notice the mention of DCD from the Freewave radios and its function(DCD
active sets up the connection, loss of DCD breaks the connection).

Last Saturday, I ran a test, I tied the DCD input to the serial port on one
Linux box, permanently active. On the other Linux box, I left DCD connected
to the Freewave radio.

I ran for 6 1/2 days before I lost the connection. Last night, when I
checked the machine with DCD tied to the Freewave radio, I had lost the sl0
entry when I did an ifconfig.

When I went to the machine with the serial DCD "tied high", I found that I
still had the sl0 entry.

My guess is that I have some local interference from time to time. This
interference must be strong enough to momentarily over load the Freewave
radios and "break" the path between the two radios. When this path is
broken, the DCD goes away and kills the SLIP connection.

I am glad I found this one. I am to the point where I need this connection
to be reliable.

Joe

From wd5ivd@tapr.org Sat Sep 26 07:20:29 1998
Received: from [206.133.102.44] (sdn-ar-001ilchicP060.dialsprint.net [206.133.102.44])
by tapr.org (8.8.5/8.8.5) with ESMTP id HAA04758
for <texnetaxip@tapr.org>; Sat, 26 Sep 1998 07:20:25 -0500 (CDT)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <v04011700b2328c40678c@[206.133.124.65]>
In-Reply-To: <3.0.32.19980926070024.006fd370@tapr.org>
Date: Sat, 26 Sep 1998 07:20:17 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:98] SLIP Connection Problem found

Look back at the message where I mention that you need the command when
setting up the serial port so that it ignores everything but the
communications lines.

To the Freewave to run all the time I had to use that version of the
command for it to work.

Greg

>Hello All
>
>I decided to post this here since a number of the folks on this list have
>been following my efforts to determine why I was losing the SLIP connection
>(via the Freewave radios) between my two Linux machines.
>
>When I looked at PS on the Linux boxes, I never lost the process, I would
>simply lose the connection(no sl0 path listed when I do an ifconfig). There
>were times the path would run for three days and then there were times it
>would not run for eight hours.
>
>I read the Freewave manual and I tried a couple of things to no avail. I
>did notice the mention of DCD from the Freewave radios and its function(DCD
>active sets up the connection, loss of DCD breaks the connection).
>
>Last Saturday, I ran a test, I tied the DCD input to the serial port on one
>Linux box, permanently active. On the other Linux box, I left DCD connected
>to the Freewave radio.
>
>I ran for 6 1/2 days before I lost the connection. Last night, when I
>checked the machine with DCD tied to the Freewave radio, I had lost the sl0
>entry when I did an ifconfig.
>
>When I went to the machine with the serial DCD "tied high", I found that I
>still had the sl0 entry.
>
>My guess is that I have some local interference from time to time. This
>interference must be strong enough to momentarily over load the Freewave
>radios and "break" the path between the two radios. When this path is
>broken, the DCD goes away and kills the SLIP connection.
>
>I am glad I found this one. I am to the point where I need this connection
>to be reliable.
>
>Joe

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

From wa5vms@tapr.org Sat Sep 26 17:39:48 1998
Received: from Pjsboro.intellex.com (road207-237.oknet1.net [198.247.207.237])
by tapr.org (8.8.5/8.8.5) with SMTP id RAA25035
for <texnetaxip@tapr.org>; Sat, 26 Sep 1998 17:39:46 -0500 (CDT)
Message-Id: <3.0.32.19980926182514.00b6c330@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sat, 26 Sep 1998 18:25:18 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [TEXNETAXIP:99] Re: SLIP Connection Problem found
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Greg

Tried that one and it did not help. I did find your cable where the
DTR,DSR,DCD and CTS were all tied together. Found that this morning. I
remembered some of the problems that you had with the Freewave radios and
that you did something like that to solve the lost connection problem. I
was headed in a similar direction, just had not made it yet, then I found
the cable.

I knew that I was fighting problems similar to those that you had but the
bottom line is that I quit playing with the Freewaves for a while until I
made progress with the TAL radios. Then there was the new serial board that
"quit" during the tests.

BTW, finished the tower install at the ISP today. Hooked up a TAL radio and
I had a solid link back to the house.

Now to finish the routing info, The ISP just assigned me an IP address today.

He has not finished all of the setup but we should have that in place by
the middle of the week. By next weekend you should be able to access
hamgate@oknet1.net.

The story about tower erection is one for the books too. I received a
donation of a 50 foor aluminum tower that is similar in design to Rohn 25.
Believe it or not, we walked all 50 foot of that tower into place, it was
really neat.

Joe

From wd5ivd@tapr.org Sun Sep 27 01:29:09 1998
Received: from [206.133.102.123] (sdn-ar-001ilchicP211.dialsprint.net [206.133.102.123])
by tapr.org (8.8.5/8.8.5) with ESMTP id BAA26755
for <texnetaxip@tapr.org>; Sun, 27 Sep 1998 01:29:08 -0500 (CDT)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <v04011701b2338989b6e8@[206.133.102.44]>
In-Reply-To: <3.0.32.19980926182514.00b6c330@tapr.org>
Date: Sun, 27 Sep 1998 01:20:24 -0500
To: texnetaxip@tapr.org
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Re: [TEXNETAXIP:100] Re: SLIP Connection Problem found

Sounds very good Joe.

I think we will be having more people getting TALNET radios....had a number
signing and ordering them while we are here at the DCC.

Greg

>Hi Greg
>
>Tried that one and it did not help. I did find your cable where the
>DTR,DSR,DCD and CTS were all tied together. Found that this morning. I
>remembered some of the problems that you had with the Freewave radios and
>that you did something like that to solve the lost connection problem. I
>was headed in a similar direction, just had not made it yet, then I found
>the cable.
>
>I knew that I was fighting problems similar to those that you had but the
>bottom line is that I quit playing with the Freewaves for a while until I
>made progress with the TAL radios. Then there was the new serial board that
>"quit" during the tests.
>
>BTW, finished the tower install at the ISP today. Hooked up a TAL radio and
>I had a solid link back to the house.
>
>Now to finish the routing info, The ISP just assigned me an IP address today.
>
>He has not finished all of the setup but we should have that in place by
>the middle of the week. By next weekend you should be able to access
>hamgate@oknet1.net.
>
>The story about tower erection is one for the books too. I received a
>donation of a 50 foor aluminum tower that is similar in design to Rohn 25.
>Believe it or not, we walked all 50 foot of that tower into place, it was
>really neat.
>
>Joe

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

From jcm7181@usl.edu Mon Sep 28 12:22:23 1998
Received: from larry.wu3v.net (root@larry.wu3v.net [206.104.42.243])
by tapr.org (8.8.5/8.8.5) with ESMTP id MAA02759
for <texnetaxip@tapr.org>; Mon, 28 Sep 1998 12:22:22 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id RAA26764
for <texnetaxip@tapr.org>; Mon, 28 Sep 1998 17:22:15 GMT
Message-Id: <3.0.6.32.19980928172227.00945d30@pop.usl.edu>

X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Mon, 28 Sep 1998 17:22:27 +0000
To: texnetaxip@tapr.org
From: Jim Moore <jcm7181@usl.edu>
Subject: Texnet node in Lafayette, LA
In-Reply-To: <3.0.32.19980926182514.00b6c330@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am currently testing a Texnet node here in Lafayette on 145.01 and 441.05
I am using a Tekk KS-900L radio for 9k6 and it seems to work just fine.
I will do some more extensive testing when I get a second node running for
a site in Baton Rouge. As soon as we have axip going I imagine you will be
seeing us!
The call is N5SYF and NODENAME is LFTDXC

73 de Jim WU3V

==========
MONTHLY ARCHIVE: texnetaxip.9810
MONTH: 1998-10
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9810
==========

From morganb@inetport.com Thu Oct 01 11:26:01 1998
Received: from admin.inetport.com (inetport.com [204.96.100.2])
by tapr.org (8.8.5/8.8.5) with ESMTP id LAA12799
for <texnetaxip@tapr.org>; Thu, 1 Oct 1998 11:26:01 -0500 (CDT)
Received: from as01-45.inetport.com (as01-45.inetport.com [204.96.100.125])
by admin.inetport.com (8.8.8/8.8.5) with SMTP id LAA18710;
Thu, 1 Oct 1998 11:25:59 -0500 (CDT)
Message-Id: <3.0.1.16.19981001160108.278fc976@inetport.com>
X-Sender: morganb@inetport.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Thu, 01 Oct 1998 16:01:08
To: "Biekert, Robert" <robert.e.biekert@usahq.unitedspacealliance.com>
From: "Robert B. Morgan" <morganb@inetport.com>
Subject: Re: APRS networking via TexNet
Cc: texnetaxip@tapr.org
In-Reply-To: <199810011149.GAA01956@admin.inetport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:47 AM 10/1/98 -0500, you wrote:
>What can we do to get TexNet in the Houston area? The Clear Lake ARC (NASA
>area) would very much like to tie into the TexNet system.
>
>My 'real' email is ka5glx@clarc.org
>
>73
>Bob KA5GLX

Fantastic. They are stating to crawl out of the woodwork now.

TexNet is in the process of developing some trunking over the internet.
It is still under development. It is based on AX25IP tunneling, where
we encapsulate AX25 packets inside IP and move them from place to place,
over longer paths than we can do with practical radio links. Currently
we are planning such links from the main part of TexNet at Austin, Denton,
and San Antonio to Midland, Lafayette La, and the other portion of
the network in Oklahoma/Arkansas/Missouri. We have had some recent interest
from Laredo, and even Reno NV and Sacremento Ca. Current status is that
we have secured access through various providers at most of these places,
and I have done some bench testing that shows it will work. I am in the
midst of writing some async drivers for the Z80 side of the system, and will
probably have to enhance the AX25IP side also, which runs under Linux.
I thought we would be there by now, but like the APRS addition to the
code it took time, and will be ready whenever it is finished and tested.

We have been trying to get into the Houston area for quite some time now.
Seems like a real series of losing battles over the years. At one time
we had a donated wireline that went there, but the facility it terminated
at had no roof access for radio antennas. TPRS has sold more TexNet NCP
kits to Houston addresses than any other single city, and none of them
ever turned up on the air as far as we know. Hopefully they are still

around, if only someone knew where they went, so you might ask around
to see. The closest RF access from TexNet to Houston is in Victoria.

Look around for any cooperative source of internet connectivity which you
can make an ethernet connection to (so that it will be fast enough),
and plan to install (or share use of) a Linux system with a fixed
address, that can support a daemon (AX25IPD) and a serial port, and
in a location you can install radios and antennas. Some commercial
providers have been known to block some tunneling protocols so inquire ahead
of time. This one is based on RFC1226, and it is IP protocol # 93.
If you do locate a willing provider, let me know what it is, I would
like to ping it a few times and measure response times. We have been
seeing numbers well under 100 mSec in most cases, except on the day the
Clinton/Lewinsky stuff hit the internet.

Let me know what you can come up with. We have a mail reflector on TAPR
which is supporting the logistics and planning for this effort, and if
you are interested I will arrange to get you on it. In any event I am going
to CC that reflector with this reply so that we make a record of the interest.
That is texnetaxip@tapr.org and it is one of its SIG reflectors. I
am not sure if it is open or closed, but hit www.tapr.org and look at
the public SIG's and see if you can sign onto it, if that is your wish.
If it is private, leave me an e-mail and I wil let someone, probably Greg
know.

If you can locate some of the original NCP's fine, if not the only
alternative available to run TexNet on at the present is TNC2 clones.
A simple node could be no more than using its native 1200b modem on
a user frequency and plugging the serial port into the Linux system
hosting the AX25IP interface, and dropping our (as yet vaporware) TexNet
eprom into the TNC2. A more sophisticated network would attach a modified
9600b TPRS FSK radio modem to each TNC2, which would have to undergo a
relatively simple dualport modification we have developed, so that each
TNC2 would support two radios, one trunk and one user. You could equip
several sites with this setup, of course at least one of them could be
an APRS node, the others might be for various connected uses on other
frequencies if your plans called for it. Then it would be necessary to
have one TNC2 at the ISP location, with one 9600b modem on it and a
radio for the UHF trunk, so it could join the rest of the network.
Maybe since there are others in Houston wanting to do the same, if
they all get together they may be able to combine the internet interface
and sit on a common RF trunk around Houston. If very much activity
develops it would be advantageous for reliability to have more than
one site tied to the internet, so we could route around problems.

I have heard from other hams in the Houston area in the past several
months. I need to pull together a list of them, but I don't have it
in one place right now. Some of the people we are working with are
the DXC node sponsors, and some of them are experienced in AX25IP setups
already. That tunneling protocol has been around since 1991 and it works
pretty well, and it is fairly simple, it really amounts to digipeating
over the internet. Off the top of my head, the Houston area callsigns
that I heard may be interested or involved are K5CON, N5VDA, and at one
time WD5HJP. I met someone at Summerfest, who I didn't have time to
write down any details, that knew WD5HJP and was going to contact him.
WD5HJP is Bill Wade; when he lived around Dallas helped build the
original core part of TexNet in that area, and he lives around Pearland now.

It has been a few years since I have been to Houston, but that is one
of the parts of town I enjoy visiting, and I have been through NASA
several times.

Keep me posted with your progress.

73 de Bob WB5AOH
Austin Texas
morganb@inetport.com

From wa5vms@tapr.org Sun Oct 11 05:31:15 1998
Received: from Pjsboro.intellex.com (road207-223.oknet1.net [198.247.207.223])
by tapr.org (8.8.5/8.8.5) with SMTP id FAA23363
for <texnetaxip@tapr.org>; Sun, 11 Oct 1998 05:31:14 -0500 (CDT)
Message-Id: <3.0.32.19981011061737.00aca080@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 11 Oct 1998 06:17:53 -0500

To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Linux
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All

There has been a discussion on the need for more info on Linux, the use of
the 44. ip address, etc.

I wanted to make those with low band capabilities aware of a get together
on Saturday mornings where some of these subjects are discussed.

A group of us get together on or around 3.858-59 MHz at 7 AM on Saturday
mornings. This may be a bit early for some folks but it seems to work out
best at this time.

All are invited to join in the discussion of packet topics and these topics
usually run along the lines of Linux and TCP-IP.

Joe

From jcm7181@usl.edu Sun Oct 11 14:27:57 1998
Received: from larry.wu3v.net (root@larry.wu3v.net [206.104.42.243])
by tapr.org (8.8.5/8.8.5) with ESMTP id OAA15977
for <texnetaxip@tapr.org>; Sun, 11 Oct 1998 14:27:55 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id TAA09956
for <texnetaxip@tapr.org>; Sun, 11 Oct 1998 19:27:52 GMT
Message-Id: <3.0.6.32.19981011142731.0094fc50@pop.usl.edu>
X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sun, 11 Oct 1998 14:27:31 +0000
To: texnetaxip@tapr.org
From: Jim Moore <jcm7181@usl.edu>
Subject: Re: [TEXNETAXIP:104] Linux
In-Reply-To: <3.0.32.19981011061737.00aca080@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:32 AM 10/11/98 -0500, you wrote:
>Hello All
>
>There has been a discussion on the need for more info on Linux, the use of
>the 44. ip address, etc.

I have been running a 44 net gateway and axip since 1991, there are some
problems
using 44 net for axip with tnos. Jnos works just fine with the 44 net axip's.
The builtin ipip inside linux and a 44 net axip will also not work, but
that is usually not necessary.
If you are comtemplating running 44 net and axip your isp and his upstream
provider must transport ip protocoles 4, 93 and 94. These are not tcp ports
so be aware that the isp understands the difference. Also it is suggested
that the 44 net routes be installed on the gateways that are attempting a
44 net connection if not the routes end up going to ucsd.edu and that will
involve unwanted delays in processing the packets.
One other point is that ip masquerading will not work for axip, what is
required is for both systems to have true internet address that are
routable directly on the internet. I have also been unsecessful making an
axip work between a 44 net address and an internet address!

Jim WU3V

From wa5vms@tapr.org Sun Oct 11 19:06:15 1998
Received: from Pjsboro.intellex.com (road207-200.oknet1.net [198.247.207.200])
by tapr.org (8.8.5/8.8.5) with SMTP id TAA05902
for <texnetaxip@tapr.org>; Sun, 11 Oct 1998 19:06:13 -0500 (CDT)
Message-Id: <3.0.32.19981011195251.00b73668@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Sun, 11 Oct 1998 19:52:56 -0500
To: texnetaxip@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Comments
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi Jim

I understand what you are saying about axip and the 44 addresses. The only
reason that I brought up the 44 addresses is that ther has been some
discussion concerning those addresses and fuller.net.

It is probably a good thing that you mentioned to this group that axip will
not work with 44 addresses.

I have the TAL radio installed at the ISP. I did have to tweak an antenna,
I had a path but at times it was marginal and would drop out. Things seem
to be fine now.

I am still having a bit of a problem making the ISP understand what I need.
I had the TAL radios and my Linux machine set up with the 198 IP address to
be at the house. He wanted me to move it to the ethernet port on the remote
TAL radio. I did so and of course things are not working.

When I get a minute, I will give you a call on the telephone and set up a
time that I can get you on the same line with the tech at the ISP. I think
a few simple changes on his end will fix the problem.

This is a learning process for both myself and the tech at the ISP.
Hopefully, we can put together a set of guidelines for establishing such a
connection and that may save some folks a bit of trouble in the future.

BTW, Mike Foster did a telnet session into the router and he agrees with
you and me that the 198 address needs to be on the linux box at my house.

Joe

From jcm7181@usl.edu Sun Oct 18 20:29:58 1998
Received: from larry.wu3v.net (root@larry.wu3v.net [206.104.42.243])
by tapr.org (8.8.5/8.8.5) with ESMTP id UAA14475
for <texnetaxip@tapr.org>; Sun, 18 Oct 1998 20:29:57 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id BAA17821
for <texnetaxip@tapr.org>; Mon, 19 Oct 1998 01:29:55 GMT
Message-Id: <3.0.6.32.19981018202941.0095d1f0@pop.usl.edu>
X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sun, 18 Oct 1998 20:29:41 +0000
To: texnetaxip@tapr.org
From: Jim Moore <jcm7181@usl.edu>
Subject: New TexNet nodes in Louisiana
In-Reply-To: <3.0.6.32.19981011142731.0094fc50@pop.usl.edu>
References: <3.0.32.19981011061737.00aca080@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have just installed 2 texnet nodes, MAXIE K5USL-4 is installed at the
KLFY tv tower, I was employed there for 12 years and still have some good
friendships at the transmitting facilities. It is being shared with a 2
metre voice repeater via a 3 port wacom duplexer and packet combiner. The
antenna is installed at the 650 foot level on a 1771 foot tower.

LFTDXC N5SYF-4 is installed at my home, it will be connected to the
dxclusters bpq switch and the linux computer that houses my jnos and xfbb
bbs'. Both nodes are currently linked on 145.01.

Thanks to all that have helped me along with all the problems notably
WB5AOH, N0CCW and of course K5ET Fred the transmitter engineer at KLFY tv.

Jim WU3V

From jcm7181@usl.edu Sun Oct 18 21:23:52 1998
Received: from larry.wu3v.net (root@larry.wu3v.net [206.104.42.243])
by tapr.org (8.8.5/8.8.5) with ESMTP id VAA16769;
Sun, 18 Oct 1998 21:23:51 -0500 (CDT)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id CAA17961;
Mon, 19 Oct 1998 02:23:49 GMT
Message-Id: <3.0.6.32.19981018212336.00945df0@pop.usl.edu>
X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sun, 18 Oct 1998 21:23:36 +0000
To: "Joe S. Borovetz" <wa5vms@tapr.org>

From: Jim Moore <jcm7181@usl.edu>
Subject: Re: Route info
Cc: texnetaxip@tapr.org
In-Reply-To: <3.0.32.19981018215342.00b7993c@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sorry to listen in Joe but I saw no default route on your linux machine
Jim

At 09:53 PM 10/18/98 -0500, you wrote:
>Hi Mike
>
>Here is a list of the routes as they appear at the various points.
>
>Hope you can handle Word 2.0. I did not want to fight some of the auto
>formatting in the later versions of Word.
>
>Joe

>

==========
MONTHLY ARCHIVE: texnetaxip.9901
MONTH: 1999-01
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9901
==========

From bounce-message-828@lists.tapr.org Sun Jan 24 16:24:57 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id QAA19449
for <lyris.texnetaxip@tapr.org>; Sun, 24 Jan 1999 16:24:57 -0600 (CST)
Message-Id: <LYR828-370-1999.01.24-16.25.01--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Lyris-Type: get-doc
From: Lyris <lyris@lists.tapr.org>
Reply-To: Lyris <lyris@lists.tapr.org>
To: lyris.texnetaxip@tapr.org
Subject: TexNet AXIP Development List Welcome
Date: Sun, 24 Jan 1999 16:25:01 -0600
Status: OR

****
* PLEASE SAVE THIS WELCOME MESSAGE! *
****

Welcome to the TexNet AXIP Mailing List!

TexNet AXIP is working on

Deveoloping TexNet AXIP software and sites.

Mechanics of the List

The TexNet AXIP mailing list charter is to provide a forum for the exchange
of
information about packet radio networking and network building. News,
hints & kinks, case studies, and such are welcome parts that we hope will
become an important resource for those participating in the forum.

TAPR is committed to the success of the various SIG lists. All lists have
tremendous potential, but TAPR does not want that potential to be lost.

The criteria for appropriate publication are simple: messages should 1)
advance the discussion at hand, 2) not perpetuate one of our many Holy
Wars (i.e., my OS is bigger than your OS, or "your protocol stinks
because"), and 3) avoid personal attacks (FLAMES).

In addition, we wish to re-post traffic generated here on the PBBS
network. Therefore, refrain from using profanity, and do not use the forum
to promote commercial activity. Please stay focused on the issues which
relate to the purpose of the forum charter.

If a messages from individuals over time continue to abuse these
standards, they will be removed from the list. If problems are frequent
to the point of problems, the mail list can become moderated at the
discretion of the SIG chairperson.

Our hope is that SIG members will bear in mind the goals of the SIGs when
posting messages, and that very few messages will be considered outside of
these standards. If you feel that you must FLAME someone, do it via
personal mail or use one of the many other places available to vent
spleen. The forums are setup for positive, productive, cooperative
discussions.

To post messages to the texnetaxip list, send email to:

texnetaxip@lists.tapr.org

To unsubscribe from this mailing list, surf to:

http://www.tapr.org/cgi-bin/lyris.pl?enter=texnetaxip

or send email to:

lyris@lists.tapr.org

with the following line in the body of the message:

unsub texnetaxip

The host of this list is:

Tucson Amateur Packet Radio (TAPR)
tapr@tapr.org
http://www.tapr.org
8987-309 E Tanque Verde Rd. #337, Tucson, AZ 85749-9399,
phone 940-383-0000, fax 940-566-2544

Just so that you have all the commands neatly contained in one place,
here is just about everything you will need to know. Note that this list
is running on a Lyris server. Please be aware that the commands might be
different from those that you are used to using on other list servers.
(For more information on Lyris, see <http://www.lyris.com/>.)

1. First of all, almost everything that you might need to do on the
server is most easily and effectively performed via Lyris's Web
interface at <http://www.tapr.org/cgi-bin/lyris.pl>.

2. In case you do not have Web access, here are some key commands; in all
cases, the default server address is: <lyris@lists.tapr.org>. Other
addresses are shown where appropriate. Note that commands may be placed
in either the subject line or in the body of the message:

SUBSCRIBING:
subscribe texnetaxip your_name
join texnetaxip your_name
alternate address: join-texnetaxip@lists.tapr.org

UNSUBSCRIBING:
unsubscribe texnetaxip
leave texnetaxip
alternate address: leave-texnetaxip@lists.tapr.org

SETTING MEMBERSHIP TO DIGEST MODE:
set texnetaxip digest

SETTING MEMBERSHIP TO INDEX MODE:
set texnetaxip index

SETTING MEMBERSHIP TO DISCUSSION MODE:
set texnetaxip mail

TEMPORARILY SUSPENDING MAIL FROM THE LIST:
set texnetaxip nomail

RESUMING MAIL FROM THE LIST:
(command depends on your preferred mode)
set texnetaxip mail
set texnetaxip digest
set texnetaxip index

ACKNOWLEDGMENT:
set texnetaxip ack
(sends you a confirmation message when your posts are sent)
set texnetaxip noack
(no confirmation message when posts are distributed)

RECEIVING COPIES OF YOUR OWN POSTS:
set texnetaxip repro
(receive copies of your own posts)
set texnetaxip norepro
(do not receive copies of your own posts)

SETTING YOUR PASSWORD:
set texnetaxip pw=mypassword
(where "mypassword" is the password you wish to set)

DETERMINING YOUR MEMBERSHIP SETTINGS:
query texnetaxip

RETRIEVING THE CURRENT VERSION OF THIS DOCUMENT:
get texnetaxip hello

MORE INFORMATION ON LYRIS'S COMMANDS:
help

POSTING TO THE LIST:
You must be a subscriber to post messages. Sending
mail to this address will distribute it to all the members of the
mailing list: texnetaxip@lists.tapr.org

3. CHANGING YOUR SETTINGS/ADDRESS VIA THE WEB INTERFACE: To do this, go
to <http://www.tapr.org/cgi-bin/lyris.pl> and click the link in the
"Change Your Settings" section. You'll need to enter your e-mail
address and password (if you chose one) to continue.

(If you've forgotten your password, you can type in your e-mail address
in the field at the bottom of the page and click "Get password" to
request Lyris to e-mail your password to you.)

At the following page, you can read messages, post a message, adjust
your settings, or unsubscribe. From the settings page, you can change
your status (MAIL, DIGEST, INDEX, or NOMAIL), choose whether or not to
see your own messages, and choose whether or not you want to receive a
separate acknowledgement via e-mail when one of your messages is posted
to the list, You can also change your e-mail address if you need to.
When you change your settings, make sure you click the "Save" button at
the bottom of the page.

4. ARCHIVES: The texnetaxip SIG archives are available on the Web, at the
following URL: <http://www.tapr.org/sigf.html>

5. BOUNCED MAIL: One of the key features of Lyris is its ability to handle
mail bounces transparently to the list owner; as such, bounced mail
will be handled primarily by the Lyris list server.

6. POSTS/REPLIES FROM DIGEST USERS: You *must* change the Subject: line
when replying to a digest; all posts with "texnetaxip DIGEST" in the
Subject: line will be rejected by the server (you will receive a
"rejection letter" when this happens).

From jim@usl.edu Sat Jan 02 10:37:12 1999
Received: from larry.wu3v.net (root@[206.104.42.243])
by tapr.org (8.8.5/8.8.5) with ESMTP id KAA16667
for <texnetaxip@tapr.org>; Sat, 2 Jan 1999 10:37:11 -0600 (CST)
Received: from winnt (winnt.wu3v.net [206.104.42.226]) by larry.wu3v.net (8.8.3/8.8.3) with SMTP id QAA31567
for <texnetaxip@tapr.org>; Sat, 2 Jan 1999 16:36:28 GMT
Message-Id: <3.0.6.32.19990102103845.009bf710@pop.usl.edu>
X-Sender: jcm7181@pop.usl.edu
X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32)
Date: Sat, 02 Jan 1999 10:38:45 -0600
To: texnetaxip@tapr.org
From: Jim Moore <jim@usl.edu>
Subject: Query
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Status: OR

I have not received any messages in quite some time
am I still a member?

Jim WU3V

From Tom.McDermot@aud.alcatel.com Sun Jan 03 15:35:42 1999
Received: from eagle.aud.alcatel.com (eagle.aud.alcatel.com [128.251.96.217])
by tapr.org (8.8.5/8.8.5) with SMTP id PAA05975
for <texnetaxip@tapr.org>; Sun, 3 Jan 1999 15:35:41 -0600 (CST)
Received: from mcdermott_lt.aud.alcatel.com by eagle.aud.alcatel.com (SMI-8.6/SMI-SVR4)
id PAA16745; Sun, 3 Jan 1999 15:35:37 -0600
Received: by localhost with Microsoft MAPI; Sun, 3 Jan 1999 15:34:58 -0600
Message-ID: <01BE372E.9EC6BB00.mcdermot@aud.alcatel.com>
From: Tom McDermott <Tom.McDermot@aud.alcatel.com>
To: "'texnetaxip@tapr.org'" <texnetaxip@tapr.org>
Subject: RE: [TEXNETAXIP:109] Query
Date: Sun, 3 Jan 1999 15:34:57 -0600
X-Mailer: Microsoft Internet E-mail/MAPI - 8.0.0.4211
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Status: OR

Jim: your still a member. This newsgroup has not been very active in some
time. We had a good meeting in Austin in December. Lots going on, probably
no one has time to write about it. Audio and slides from the Dec meeting are
on the TPRS web site: http://www.tprs.org

Tom McDermott
mcdermot@aud.alcatel.com

-----Original Message-----
From: Jim Moore [SMTP:jim@usl.edu]
Sent: Saturday, January 02, 1999 10:40 AM
To: texnetaxip@tapr.org
Subject: [TEXNETAXIP:109] Query

I have not received any messages in quite some time
am I still a member?

Jim WU3V

From bounce-texnetaxip-828@lists.tapr.org Sun Jan 31 19:40:07 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id TAA02132
for <lyris.texnetaxip@tapr.org>; Sun, 31 Jan 1999 19:40:04 -0600 (CST)
Message-Id: <LYR828-2697-1999.01.31-19.40.19--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Sender: wa5vms@tapr.org
Date: Sun, 31 Jan 1999 19:49:40 -0600
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: [texnetaxip] ISP Connectivity Update
Cc: mgcomputers@azalea.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <3.0.32.19990131194937.00684e60@tapr.org>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Hi Guys

I figured this list would be the best place to post this info since most of
the folks that have been following my trials and tribulations get mail from
this list.

In the past week, there was a major upgrade at my ISP oknet1.net. They
added another group of IP addresses and also an new Portmaster 4. Due to
all of the re-arranging taking place, my TAL radio and router had to be
removed from the equipment rack. This gave me a chance to take the radio
and router home and begin some troubleshooting on the routing situation
that has given me headaches since the TAL radio was installed at the ISP.

Before I go any further, I should mention that the new group of IP addresses has relieved some of the problems that came from a lack of available addresses at the ISP.

Now for a rundown on IP addresses.

198.247.208.1 is the IP address of the Cisco 2500 router at my ISP.
198.247.207.81 is the ethernet port on the TAL router at the ISP.
198.247.207.82 is the address of the router at the ISP.
198.247.207.83 is the address of the router at my home QTH.
198.247.207.84 is the ethernet port on the router at my home QTH.
198.247.207.10 is the IP address on my wa5vms linux box which routes to the rest on my ham network.

I set up another Linux box in my shack that is connected to the ethernet port on the ISP TAL router(via a crossover cable). The IP address of the "new" linux machine is set to 198.247.207.1, the same as the router at the ISP. The machine name of this computer is "router".

Routing in the TAL routers was modified a bit and the correct static routes were entered into the "router" linux box.

At that point, everything was up and running fine. I did a few things around the house and came back to test the link. When I tried to ping the wa5vms machine at .10 from the .1 router machine, I received no response. WHAT!! Things were working just fine 30 minutes earlier. I decided to do a telnet to .10. Telnet worked fine. The all of a sudden, I could ping .10.

After a bit of testing over the past couple of days, I have come to one conclusion, I have a flakey ethernet port on the TAL router that I was using at the ISP.

Tom N5EG, this explains why you were not able to get a traceroute response from this router when you tried a couple of weeks ago.

This is how I have determined the problem to be within the TAL radio ethernet port.

When it is broken, telnet traceroute and ping from the .1 router linux box to the TAL ethernet 198.247.207.81 address will not work.

If you telnet from the wa5vms linux box over the radio link to .81, it works fine. After you ping .81 from wa5vms, then all functions to .81 from .1 work fine.

When you do a telnet session from the router machine to wa5vms, it will always work. If the ISP router is "broken", any attempts to do a traceroute or ping .10 will fail though. After you do a telnet session to .10, the failures go away.

When the ISP router has failed, I still see activity on the ethernet port LED of that router that indicating that my packets are reaching the router. If I start a ping session and leave it for a while, I start gettings replies back. It may take a while though maybe 20 failed tries before pings are returned.

If I wanted to, I could beat this subject to death for at least another half a page with tests that I ran. The bottom line is this, there appears to be a problem with the ethernet port on the ISP TAL router.

I have also determined that once I have the port passing data, it will continue to work until the port is inactive for a period of time. This period of inactivity could be anywhere from 15 minutes to 2 hours.

I think the first step is to swap routers and install the "good" router at the ISP. Then I need to check the "bad router". Seems as though I remember Greg mentioning a crummy connector inside the router that feeds the RJ45 jack on the ethernet port.

One thing for sure, if there is a problem router, I need it at the home QTH where I can get my hands on it if necessary.

If the world does not fall apart, I plan to try to put the equipment back in place at the ISP on Thursday Feb 4. I have business that will require that I take off work for part of the afternoon. Figure I might as well take off the whole day and play some too.

Tom, when does the Q-Report info need to be submitted. There are a couple
of changes that I need to make to the article that I sent to you. If all
else fails maybe a short addendum at the end.

Joe

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

==
MONTHLY ARCHIVE: texnetaxip.9902
MONTH: 1999-02
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9902
==

From bounce-texnetaxip-828@lists.tapr.org Thu Feb 4 19:07:46 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id TAA07674
for <lyris.texnetaxip@tapr.org>; Thu, 4 Feb 1999 19:07:46 -0600 (CST)
Message-Id: <LYR828-3582-1999.02.04-19.08.13--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Sender: wa5vms@tapr.org
Date: Thu, 04 Feb 1999 19:17:46 -0600
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: [texnetaxip] Look Ma: No wires-almost
Cc: mgcomputers@azalea.net, kd5qd@juno.com, mxfoster@concentric.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <3.0.32.19990204191742.00c059c0@tapr.org>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Hi Guys

It works, well almost all of it works.

I have the TAL radios up and running now. Web browsing is great today.

The only problem is with my e-mail. Eudora can't get my mail off of the
tapr.org mail server. Eudora is on my Win95 machine that gets its LAN
internet feed via IP masquerading in my 486-80 Linux machine. Netscape
works fine on the same machine so I guess I have over looked something. Not
sure what is taking place since Eudora worked when I was using a PPP
dialup connection on the same Linux machine with IP masq.

Otherwise, things seem to be working fine.

Think I have had enough fun for one day. Time to kick back and relax this
evening.

Tom, it may be too late but I will try to finish up the addendum to my
article and will send it to you tomorrow evening.

Joe

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Thu Feb 4 20:51:22 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id UAA12101
for <lyris.texnetaxip@tapr.org>; Thu, 4 Feb 1999 20:51:21 -0600 (CST)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR828-3603-1999.02.04-20.51.46--lyris.texnetaxip#tapr.org@lists.tapr.org>
Date: Thu, 4 Feb 1999 20:51:02 -0600
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: [texnetaxip] Re: Look Ma: No wires-almost
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <v04020a0db2e00d058ac4@[207.8.125.50]>
<LYR612-3582-1999.02.04-19.08.13--WD5IVD#TAPR.ORG@lists.tapr.org>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Congrats Joe!!

Was the problem with the Ethernet the connector ?

Greg

>Hi Guys
>
>It works, well almost all of it works.
>
>I have the TAL radios up and running now. Web browsing is great today.
>
>The only problem is with my e-mail. Eudora can't get my mail off of the
>tapr.org mail server. Eudora is on my Win95 machine that gets its LAN
>internet feed via IP masquerading in my 486-80 Linux machine. Netscape
>works fine on the same machine so I guess I have over looked something. Not
>sure what is taking place since Eudora worked when I was using a PPP
>dialup connection on the same Linux machine with IP masq.
>
>Otherwise, things seem to be working fine.
>
>Think I have had enough fun for one day. Time to kick back and relax this
>evening.
>
>Tom, it may be too late but I will try to finish up the addendum to my
>article and will send it to you tomorrow evening.
>
>Joe
>
>
>
>
>---
>You are currently subscribed to texnetaxip as: WD5IVD@TAPR.ORG
>To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

-----
Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Thu Feb 4 22:32:49 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id WAA15755
for <lyris.texnetaxip@tapr.org>; Thu, 4 Feb 1999 22:32:47 -0600 (CST)
Date: Thu, 4 Feb 1999 22:32:35 -0600 (Central Standard Time)
From: Lee Ziegenhals <n5lyt@tapr.org>
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
Subject: [texnetaxip] Re: Look Ma: No wires-almost
In-Reply-To: <LYR616-3582-1999.02.04-19.08.13--N5LYT#TAPR.ORG@lists.tapr.org>
Message-ID: <LYR828-3615-1999.02.04-22.33.12--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-X-Sender: n5lyt@tapr.org
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <Pine.WNT.4.05.9902042224120.110-100000@harpo>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

> The only problem is with my e-mail. Eudora can't get my mail off of the
> tapr.org mail server. Eudora is on my Win95 machine that gets its LAN

Joe,

I believe the reason you can't connect to the POP server on tapr.org is
because of a missing DNS entry for your system. I see where you attempted
to connect to the POP server, but the system refused the connection
because there is no A record for hamgate.oknet1.net.

I've added a temporary entry for your system to the hosts file on
tapr.org, so give it another try. You'll need to talk to the folks at
NET1 about getting the DNS issue fixed.

Lee

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Fri Feb 5 06:14:08 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id GAA15616
for <lyris.texnetaxip@tapr.org>; Fri, 5 Feb 1999 06:14:07 -0600 (CST)
Message-Id: <LYR828-3662-1999.02.05-06.14.29--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Sender: wa5vms@tapr.org
Date: Fri, 05 Feb 1999 06:24:01 -0600
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: [texnetaxip] Re: Look Ma: No wires-almost
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <3.0.32.19990205062345.00c06504@tapr.org>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

At 08:51 PM 2/4/99 -0600, you wrote:
>Congrats Joe!!
>
>Was the problem with the Ethernet the connector ?

That and I had to use proxy arp on the ISP router to publish each of the IP
addresses for the routers. I had already published the route to the Linux
box here at the house but I had to add the rest.

Never did get the static routes added in the router at the ISP. I am using
RIP to supply the hidden addresses to the Cisco router.

Joe
>
>Greg
>
>>Hi Guys
>>
>>It works, well almost all of it works.
>>
>>I have the TAL radios up and running now. Web browsing is great today.
>>
>>The only problem is with my e-mail. Eudora can't get my mail off of the
>>tapr.org mail server. Eudora is on my Win95 machine that gets its LAN
>>internet feed via IP masquerading in my 486-80 Linux machine. Netscape
>>works fine on the same machine so I guess I have over looked something. Not
>>sure what is taking place since Eudora worked when I was using a PPP
>>dialup connection on the same Linux machine with IP masq.
>>
>>Otherwise, things seem to be working fine.
>>
>>Think I have had enough fun for one day. Time to kick back and relax this
>>evening.
>>
>>Tom, it may be too late but I will try to finish up the addendum to my

>>article and will send it to you tomorrow evening.
>>
>>Joe
>>
>>
>>
>>
>>---
>>You are currently subscribed to texnetaxip as: WD5IVD@TAPR.ORG
>>To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org
>
>-----
>Greg Jones, WD5IVD Austin, Texas
>wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>
>
>
>---
>You are currently subscribed to texnetaxip as: WA5VMS@TAPR.ORG
>To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org
>
>

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Sat Feb 6 07:54:35 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id HAA20414
for <lyris.texnetaxip@tapr.org>; Sat, 6 Feb 1999 07:54:34 -0600 (CST)
Message-ID: <LYR828-3811-1999.02.06-07.54.58--lyris.texnetaxip#tapr.org@lists.tapr.org>
From: Tom McDermott <Tom.McDermot@aud.alcatel.com>
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
Subject: [texnetaxip] RE: Look Ma: No wires-almost
Date: Sat, 6 Feb 1999 07:53:58 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <01BE51A5.DB3B41A0.mcdermot@aud.alcatel.com>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Joe: go ahead and finish up your article. I was in New Jersey most of last
week, will be in San Francisco beginning of next. Am in the office today
(Saturday) to do all the work.

so this means the QR will be a little late getting started - so we have time to
get your article. I consider it very important!

Tom McDermott
mcdermot@aud.alcatel.com

-----Original Message-----
From: Joe S. Borovetz [SMTP:wa5vms@tapr.org]
Sent: Thursday, February 04, 1999 7:18 PM
To: TAPR TexNet AXIP Development List
Cc: mgcomputers@azalea.net; kd5qd@juno.com; mxfoster@concentric.net
Subject: [texnetaxip] Look Ma: No wires-almost

Hi Guys

It works, well almost all of it works.

I have the TAL radios up and running now. Web browsing is great today.

The only problem is with my e-mail. Eudora can't get my mail off of the
tapr.org mail server. Eudora is on my Win95 machine that gets its LAN
internet feed via IP masquerading in my 486-80 Linux machine. Netscape
works fine on the same machine so I guess I have over looked something. Not

sure what is taking place since Eudora worked when I was using a PPP
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Otherwise, things seem to be working fine.

Think I have had enough fun for one day. Time to kick back and relax this
evening.

Tom, it may be too late but I will try to finish up the addendum to my
article and will send it to you tomorrow evening.

Joe

You are currently subscribed to texnetaxip as: N5EG@TAPR.ORG
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

---
You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Sat Feb 6 21:33:32 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id VAA17378
for <lyris.texnetaxip@tapr.org>; Sat, 6 Feb 1999 21:33:31 -0600 (CST)
Message-Id: <LYR828-3899-1999.02.06-21.34.02--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Sender: wa5vms@tapr.org
Date: Sat, 06 Feb 1999 21:43:39 -0600
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: [texnetaxip] Link Tests
Cc: mgcomputers@azalea.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <3.0.32.19990206214336.00b113b8@tapr.org>
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Hi Guys

I did a test this morning to see what kind of ftp speed that I get with the
TAL radios.

I decided to download the latest version of Netscape Navigator so that I
could replace Netscape 3.0 on my WIN 95 machine.

The ftp was started around 6:30 AM. The 10 meg file was downloaded in less
than 20 minutes with a speed of 12K + per second.

Not too shabby. The TAL book says that if you get 8K or better, things are
working fine.

Joe

You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

From bounce-texnetaxip-828@lists.tapr.org Sat Feb 6 23:14:39 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.8.5/8.8.5) with SMTP id XAA19973
for <lyris.texnetaxip@tapr.org>; Sat, 6 Feb 1999 23:14:38 -0600 (CST)
Message-ID: <LYR828-3907-1999.02.06-23.15.09--lyris.texnetaxip#tapr.org@lists.tapr.org>
From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
Subject: [texnetaxip] Re: Link Tests
Date: Sat, 6 Feb 1999 23:16:53 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <008901be5259$13e82320$6ef7dfd1@guy->
Sender: bounce-texnetaxip-828@lists.tapr.org
Precedence: bulk

Joe, I have noticed very simular results here in Denton. I down loaded
Navagator 4.5 3 weeks ago and when it finally got stable on the count I
leveled out at 12.1 kb, not too shabby.

Guy Story, KC5GOI
-----Original Message-----
From: Joe S. Borovetz <wa5vms@tapr.org>
To: TAPR TexNet AXIP Development List <texnetaxip@lists.tapr.org>
Cc: mgcomputers@azalea.net <mgcomputers@azalea.net>
Date: Saturday, February 06, 1999 9:32 PM
Subject: [texnetaxip] Link Tests

>Hi Guys
>
>I did a test this morning to see what kind of ftp speed that I get with the
>TAL radios.
>
>I decided to download the latest version of Netscape Navigator so that I
>could replace Netscape 3.0 on my WIN 95 machine.
>
>The ftp was started around 6:30 AM. The 10 meg file was downloaded in less
>than 20 minutes with a speed of 12K + per second.
>
>Not too shabby. The TAL book says that if you get 8K or better, things are
>working fine.
>
>Joe
>
>
>---
>You are currently subscribed to texnetaxip as: KC5GOI@INFOSPEEDWAY.NET
>To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

---
You are currently subscribed to texnetaxip as: lyris.texnetaxip@tapr.org
To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org

==========
MONTHLY ARCHIVE: texnetaxip.9905
MONTH: 1999-05
SOURCE: http://ftp.tapr.org/tapr_history/tprs/texnetaxip/texnetaxip.9905
==========

From bounce-texnetaxip-828@lists.tapr.org Sun May 2 08:18:50 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.9) with SMTP id IAA09201
for <lyris.texnetaxip@tapr.org>; Sun, 2 May 1999 08:18:50 -0500 (CDT)
From: jim@wu3v.net
Message-Id: <LYR828-18727-1999.05.02-08.23.05--lyris.texnetaxip#tapr.org@lists.tapr.org>
X-Sender: jim@wu3v.net
Date: Sun, 02 May 1999 13:18:31 +0000
To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
Subject: [texnetaxip] ncp boards
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-texnetaxip-828Y@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-texnetaxip@lists.tapr.org>
List-Owner: <mailto:owner-texnetaxip@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "TAPR TexNet AXIP Development List" <texnetaxip@lists.tapr.org>
X-Message-Id: <3.0.6.32.19990502131831.0097db70@wu3v.net>
Sender: bounce-texnetaxip-828@lists.tapr.org

Precedence: bulk

I have 2 or 3 ncp boards for sale if anyone is interested.

Jim WU3V
jim@usl.edu

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To unsubscribe send a blank email to leave-texnetaxip-828Y@lists.tapr.org